

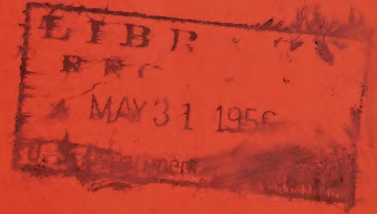
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SUMMER 1956

"Flower Seeds for Florists"

WITH BULBS AND JIFFY-POTS



PROCUREMENT SECTION
CURRENT SERIAL RECORDS

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INC.

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WEST CHICAGO,
ILLINOIS



Plan Next Spring's Profits Now . . .

25,000 S.

It seems like **everybody** has Pansies to sell in the spring! And just about **every home gardener wants them**. The best way to be sure of getting your share of this profitable business next spring **and the spring after**, is to be sure your customers get the **highest quality plants**—plants that will be a source of joy from spring till frost—plants that will bring them back for more next year.

Start with the best seed you can buy. Combine that with all the growing skill you can muster, and the best merchandising methods you can develop, and your customers will do the rest.

Buy the best seeds, grow the best plants, for the most profitable Pansies.

FOUR ACES FORMULA MIX

(New). Recognizing that each of the several Pansy specialist's strains possesses some important advantage, we have formulated this special mixture which, properly handled, should be an ideal Pansy strain. This mixture includes seed of the originator's **Roggli Giants** with their deep, bright shades and compact habit; **Steele's Jumbo** for early blooms; **Canadian Giants** with their exceptional flower size; and **Ball Giant Mixed** to complete a full, well rounded color range.

Tr. pkt., \$1.00; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.

Grown slowly and cool, the slight variations in habit of growth of these strains will not be found objectionable. Each of your Pansy customers will find his favorite strain in this mixture plus qualities imparted by the other top-notch Pansies. Here is a Pansy mixture that you can promote with complete confidence. Special note: sow thin and transplant all normal seedlings; otherwise, as in any other mixture, color balance is lost.

America. An exceptionally free flowering mixture with medium sized blooms. Dwarf and extra early.

Tr. pkt., 65c; 1/4 oz., \$2.75; 1 oz., \$10.00.

● **Ball Giant Mixture Dwarf Strain.** A fine Swiss Giant strain selected for dwarf and compact habit.

Tr. pkt., 65c; 1/8 oz., \$1.40; 1/4 oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$32.00.

Ball Winter Flowering. A tall growing winter cut-flower variety; at its best from a late summer sowing. Not for bedding. 1/2 tr. pkt., 65c; tr. pkt., \$1.10; 1/8 oz., \$2.75; 1/4 oz., \$5.00.

● **Color Carnival.** A remarkable American produced strain of Swiss Giants. Our trials indicate that it is fully equal—and in some respects superior—to best imported Roggli strain. Large flowers in a superb mixture of colors.

Tr. pkt., \$1.50; 1/8 oz., \$3.75; 1/4 oz., \$7.00; 1 oz., \$22.00.

● **Engelmann's Giant Mixture.** A large flowered and brightly colored strain, many being penciled or veined. Fairly compact growth. We offer *originator's seed* only.

Tr. pkt., \$1.00; 1/8 oz., \$3.30; 1/4 oz., \$6.00; 1 oz., \$18.00.



● **Felix.** Uniformly true to type, with well ruffled flowers of good size carried on fairly dwarf plants. Colors are rich and unusual—including purple, apricot and wine shades together with pastel bronzes and smoky tones difficult to describe. Each flower is marked with the dark "whiskers" characteristic of this strain. Tr. pkt., \$1.00; 1/4 oz., \$3.00; 1 oz., \$9.00.

Geneva Giants. A taller, vigorous-growing American strain of Swiss Giants. Tr. pkt., 85c; 1/4 oz., \$3.00; 1 oz., \$10.00.

Improved Swiss Giants. Predominates in rich bronze and red shades. Tr. pkt., 65c; 1/4 oz., \$2.75; 1 oz., \$9.00.

"101" Giant Mixture. A choice bedding and basket Pansy of the "English" type. Large flowers in a wide color range on compact plants.

Tr. pkt., 90c; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.

Maple Leaf Giants. An excellent, extra large flowered strain. Heavy growth with good stems.

Tr. pkt., 65c; 1/8 oz., \$1.65; 1/4 oz., \$3.00; 1 oz., \$10.00.

Oregon Giants. A complete mixture of long-stemmed, large flowered Giant Ruffled Pansies. *Originator's seed*.

200 seeds, 50c; 600 seeds, \$1.25; 1/4 oz., \$4.00; 1 oz., \$12.00.

Butterfly Hybrids. Ruffled 2 1/2-3-in. flowers, including unusual apricot, terra cotta and rosy orchid shades, are freely produced on vigorous plants. *Originator's seed* only.

Tr. pkt., \$1.25; 1/8 oz., \$3.35; 1/4 oz., \$5.60; 1/2 oz., \$9.75; 1 oz., \$17.75.

● **Ruffled Rainbow.** An unusually uniform dwarf mixture characterized by medium large flowers with distinctly ruffled petals and a wide range of colors.

Tr. pkt., \$1.00; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.

"FOUR BEST"

● **Ball Giant Mixture.** This is our finest and most popular bedding Pansy mixture. We blend this ourselves, using the best available strains of Swiss Giants, adding separate varieties to insure a good balance of colors.

Tr. pkt., 85c; 1/8 oz., \$1.65; 1/4 oz., \$3.00; 1 oz., \$10.00; 4 ozs., \$36.00.

● **Canadian Giants.** This selection from Maple Leaf Giants contains some of the largest flowers in Pansies.

Tr. pkt., \$1.00; 1/8 oz., \$1.85; 1/4 oz., \$3.30; 1 oz., \$11.00.

● **Roggli Giant Elite Mix.** (Pictured on opposite page.) A choice Swiss bedding strain, predominating in rich red and bronze shades with the typical, large, deep blotches. The finest large flowered Pansy. We supply *originator's imported seed* only. Sold out till '56 crop, delivery in Sept.

Tr. pkt., \$1.50; 1/8 oz., \$3.75; 1/4 oz., \$7.00; 1 oz., \$22.00.

● **Steele's Jumbo Mixture.** We handle the *originator's seed* of this popular American strain.

Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.10; 1/2 oz., \$9.20; 1 oz., \$16.50.



● **Tigress.** "Miniature Pansies." Reds, yellows, orchids and purples in novel striped and blotched arrangements of at least 3 colors create a striking appearance. Tigress has a very distinct and fine fragrance.

Tr. pkt., 50c; 1/4 oz., \$1.75; 1 oz., \$5.00.

SEPARATE COLORS

Alpenglow. Mahogany with dark center.

Berna. Dark velvety blue.

● **Coronation Gold.** (See next page). The finest, clear golden yellow.

Delft Blue. Porcelain-blue; a prized and unusual Pansy color. Flowers rather small. Particularly free flowering.

Firebeacon. Bright, flaming orange with dark center.

Giant Orange. Light orange; similar in color to Viola Apricot.

Jet Black. 80% of the flowers are a true black throughout the spring, the purple undertone not becoming apparent until hot weather. Unusual grown with white Pansies.

● **Lake of Thun.** Large ruffled blue with dark center.

Mont Blanc. Ivory-white with small yellow eye.

● **Raspberry Rose.** Soft pink with contrasting velvety blotch.

Redwing. Red and yellow petals, darker center. *Orig. seed*.

Rhinegold. Large flowered yellow with dark center.

Prices above 12, each:

Tr. pkt., 80c; 1/8 oz., \$2.00; 1/4 oz., \$3.50; 1 oz., \$11.00.

Blue Butterfly. Blue and white. Improved Lord Beaconsfield.

Tr. pkt., \$1.00; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.

The dot (●) indicates varieties most dependably satisfactory in our experience and observation.

With Quality Pansies

Paper White. Pure white, rather than the ivory shade of Mont Blanc; small yellow eye. Very outstanding in our trials.
Tr. pkt., \$1.00; 1/8 oz., \$3.00; 1/4 oz., \$5.00; 1 oz., \$18.00.
Pay Dirt. Large yellow with black lines. *Orig. seed.*
1/16 oz., \$3.00; 1/8 oz., \$5.00; 1/4 oz., \$9.00.
Redskin. Solid dark red.
Tr. pkt., \$1.00; 1/8 oz., \$3.00; 1/4 oz., \$5.00; 1 oz., \$18.00.

Originator's Separate Colors

We have definitely proved by thorough comparative flowering trials at West Chicago the general superiority of these originator-grown Swiss Giant Pansies. For flower size, uniformity of color and habit, they are the finest separate color Pansies available.



CORONATION GOLD



ROGGLI GIANT ELITE MIX

In comparative trials the world over, this unique Swiss grown Pansy strain almost invariably takes top honors for petal substance, deep rich colors, flower size and uniform dwarf habit.

- **Eiger** (Rhinegold).
- **Hohenfeuer** (Firebeacon).
Blumlisalp (Raspberry Rose).
Berna, Originator's.
Alpengluhn (Alpenglow).
Jungfrau. White.
Monch (Coronation Gold).
- **Thunersee** (Lake of Thun).
- **Roggli Giant Elite Mix** (See 4 best, opposite page).
- **Roggli Straight Color Mix.** Our own mixture of the above Roggli separate colors blended by formula.

Prices above 10 varieties, each:
Tr. pkt., \$1.50; 1/8 oz., \$3.75;
1/4 oz., \$7.00; 1 oz., \$22.00.

CATALOG No. 73—SUMMER 1956—BUSINESS TERMS

DISCOUNTS ON SEED ORDERS. Cash or C.O.D.

Discount! When cash is enclosed or on C.O.D.'s: under \$5.00, net; \$5.00 to \$25.00, 5%; \$25.00 and over, 8%. **Bulbs and plants, 2%.**

On Charge Seed Orders! If paid within 10 days from date of invoice: under \$5.00, net; \$5.00 to \$50.00, 2%; \$50.00 to \$100.00, 5%; \$100.00 and over, 8%. **Bulbs and plants, 2% 10 days.**

NO CASH DISCOUNT on Plant Containers and other Supplies. These items **cannot** be sent C.O.D.

If this is your first order, it should be signed with some **individual's name** in writing. Payment should accompany all orders unless credit has been established. C.O.D. shipments 50% in advance.

All prices in this catalog subject to change without notice.

All Seed Sent Prepaid to U. S., its possessions, or Canada, except on orders weighing over 2 ounces where customer requests first class mail, air mail or other special carrier, extra shipping costs will be charged.

IMPORTANT. Make checks or money orders payable to **Geo. J. Ball, Inc., WEST Chicago, Illinois.** Not responsible for currency sent in the mail.

Business Hours (holidays excepted) are 8 to 12 and 1 to 5 Monday through Friday. Our phone number is West Chicago 299.

THIS CATALOG IS FOR COMMERCIAL GROWERS ONLY.

Shortages. All items are offered subject to crop failures or shortages.

LIMITATION OF WARRANTY. Geo. J. Ball, Inc., warrants to the extent of the purchase price that seeds, plants, or bulbs sold are as described on the container within recognized tolerances. Seller gives no other or further warranty, express or implied.

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Ball Hybrid Snaps

(F₁ HYBRID)

(ANTIRRHINUM)

(F₁ HYBRID)

THE "REDDEST" RED SNAP YET!

Cherokee (No. 60, Exp. Hyb. No. 286X—pictured at left). This new ball F₁ Hybrid is the long sought answer to the grower's need for a true Christmas or valentine-red. It's a pure brilliant scarlet—not the usual crimson or wine-red color commonly grown. Spikes are long with large well placed florets, while stems are solid and of good length. **Available late June.** ½ tr. pkt., \$2.00; tr. pkt., \$3.50.

WHITE

Snowman (No. 5). Pictured at left. Excellent midseason pure white. This has won acclaim as the nation's most widely grown pure white for winter and spring.

Pike's Peak (No. 10). Late blooming ivory-white. Exceptionally vigorous with long stems and spikes.

June Bride (No. 12). The first "hot weather" F₁ Hybrid developed for late spring and summer single stem greenhouse use. **Sold out till late June.**

YELLOW

Golden Spike (No. 1). A rich deep golden yellow.

ROSE

Bridesmaid (No. 44). A clear medium rose reminiscent of Peggy Schumann with exceptionally long spikes of well placed, large florets. A very clean grower. **Sold out till late June.**

Showgirl (No. 42). Medium dark rose. One of the best in its color class for spring. Shatter-proof spikes. **Sold out till late June.**

Rosanna (No. 9). Midseason, deep, bright rose.

Jackpot (No. 43). Pictured below left. Midseason, medium deep rose. An ideal commercial color with solid stems of medium length carrying long spikes with excellently spaced florets. A heavy producer.

BRONZE and RED

Indian Chief (No. 6). Midseason scarlet-bronze.

Navajo (No. 8). Pictured below left. Midseason bright red. Should be sown a week earlier than other varieties for winter.

MIXED

Hybrid Formula Mixed. Mixture of Hybrid Snaps blended by formula. ½ tr. pkt., \$1.75; tr. pkt., \$3.00.

Prices, Ball Hybrid Snaps, each (except mixture): ½ tr. pkt., \$2.00; tr. pkt., \$3.50.

SNOWMAN

CHEROKEE (New)

PINK

Flower Girl (No. 34). Midseason. Long, medium pink spikes carried on clean, firm stems.

Hercules (No. 21). Pictured below. Light pink for spring. Long spikes with clean, hard stems are big features here.

Holiday (No. 32). Midseason rose-pink.

Pink Ice (No. 31). Pictured below. Bright pink with lighter lips; midseason. An excellent hard stemmed variety for growers who want a brighter pink to go with the Christina shade. **Sold out till late June.**

LAVENDER

Lavender Lady (No. 71). Pictured below. Deep rosy lavender for late winter and spring.

Esquire (No. 72). Midseason. A bright wine or fuchsia-purple that combines well with whites and yellows.

JACKPOT

NAVAJO

HERCULES

LAVENDER LADY

PINK ICE



Forcing Snapdragons

COMPLETE LIST OF VARIETIES — OUR RECOMMENDATIONS ARE DOTTED
SEE PAGES 5 and 6 FOR SNAP CULTURE

(F) HYBRID All Snapdragons listed on these pages are genuine **(F) HYBRID** varieties except those marked "inbred" which are self-pollinated kinds. **(F) HYBRID**

ABOUT BLOOMING DATES. Based upon their performance in our greenhouses here in West Chicago, we have classified the Snap varieties listed here as early (E) for those which ordinarily give the best results in November and December from a July or August sowing; midseason (M) for those which are normally at their best when flowered from January through April; late (L) for those that give the finest performance from March through May. Note that there is an over-lap in March and April during

which both the "M" and "L" classes are equally satisfactory. The varieties marked "S" include those which are especially adapted for summer greenhouse blooming from May to September; these varieties will usually refuse to flower at all when days are shorter and light is less intense. See chart page 6. Remember, though, that conditions vary in different localities and that keeping your own records will prove an invaluable guide in planning future crops.

WHITE

- | | Tr. Pkt. |
|--|----------|
| ● Snowman (No. 5, Ball). M. Excellent pure white. This has won acclaim as the nation's most widely grown pure white for winter and spring. ½ tr. pkt., \$2.00 \$3.50 | |
| ● Pike's Peak (No. 10, Ball). L. Strong growing white with slight ivory cast. ½ tr. pkt., \$2.00 3.50 | |
| ● June Bride (No. 12). S. The first "hot weather" F ₁ Hybrid developed for late spring and summer single stem greenhouse use. It has hard, clean stems and is shatter-proof in the presence of Ethylene gas. Sow from January through June only. Sold out till late June. ½ tr. pkt., \$2.00 ... 3.50 | |
| Albion (New—Yoder Bros.) M. A pure white which in our trials produces a better spike than White Knight although it is less firm stemmed than the latter and two weeks later 3.50 | |
| Apollo (Yoder Bros.) M. Ivory; yellow lip 3.50 | |
| ● Citation (Yoder Bros.) M. Ivory. Very fine, long spikes and clean, hard stems 3.50 | |
| Ivory Tower (Pan-American). M. Long shatter-proof spikes of ivory-white. ½ tr. pkt., \$2.00 3.50 | |
| Jet Pilot (Yoder Bros.) M. Pure white 3.50 | |
| Junglewood White (Inbred). L. Extra long stemmed white. ½ tr. pkt., \$1.25 2.00 | |
| Margaret (Inbred). M. Ivory. Very productive 2.00 | |
| Maryland White (Winkler). M. Pure white. ½ tr. pkt., \$2.00 3.50 | |
| ● Rockwood's Crystal White (Inbred). S. An excellent pure white. For late spring and summer only. ½ tr. pkt., \$1.75 3.00 | |
| Snowdrift . L. Double flowering white. New, improved strain, bred for high light intensity areas or spring growing only. ½ tr. pkt., \$1.75 3.00 | |
| ● Spartan White (Michigan State College). M. Clean Growing, pure white. ½ tr. pkt., \$1.75 3.00 | |
| Tommy Armstrong (Inbred). L. Pure white. Closely spaced florets 2.00 | |
| Twenty Grand (Yoder Bros.). M. Ivory 3.50 | |
| White Knight (Yoder Bros.). E. Pure white 3.50 | |

LIGHT PINK

- **Hercules** (No. 21, Ball). L. Light pink for spring. Long spikes with clean, hard stems are big features here. ½ tr. pkt., **\$2.00** **3.50**
- **Christina** (J. S. Yoder). M. One of the best all-purpose light pinks. ½ tr. pkt., **\$2.00** **3.50**
- Marie Louise** (Inbred). M. Light shell-pink **2.00**
- Mary Ellen** (J. S. Yoder). M. Light pink. ½ tr. pkt., **\$1.50** **2.50**
- Maryland Pink Imp.** (Winkler). M. Creamy light pink. ½ tr. pkt., **\$2.00** **3.50**
- Native Dancer** (New—Yoder Bros.). M. This light pink is a shade darker than Rosebud. Stems are hard and clean with well formed flower spikes. A good Snap **3.50**

Tr. Pkt.

- Rosebud** (Yoder Bros.). L. Pleasing medium pink for spring. Clean growth **\$3.50**
- St. Louis Pink** (Inbred). L. Light pink **1.50**
- **Top Flight** (Yoder Bros.). M. Light pink. Similar to Christina but a few days earlier **3.50**
- Trilbee Pink** (Windmiller). L. Pastel pink. Close-set florets on long, strong spikes. ½ tr. pkt., **\$2.00** **3.50**
- Whirlaway** (Yoder Bros.). E. Pink with large yellow lip. **3.50**

MEDIUM PINK

- **Pink Ice** (No. 31, Ball). M. Bright pink with lighter lips. An excellent hard stemmed variety for growers who want a brighter pink to go with the Christina shade. **Sold out till late June.** ½ tr. pkt., **\$2.00** **3.50**
- **Flower Girl** (No. 34, Ball). M. Long, medium pink spikes carried on clean, firm stems. Smooth, even coloring and good production. ½ tr. pkt., **\$2.00** **3.50**
- **Holiday** (No. 32, Ball). M. Medium pink; long spikes. ½ tr. pkt., **\$2.00** **3.50**
- Anne Marie** (J. S. Yoder). L. Late flowering, clear, medium pink. ½ tr. pkt., **\$2.00** **3.50**
- Cheviot Maid No. 33** (Inbred). M. Clear rose-pink ... **1.50**
- Chevy Chase Pink** (Winkler). M. Similar to Maryland Pink, but a shade darker. Shatterproof. ½ tr. pkt., **\$2.00** **3.50**
- **Crusader** (Yoder Bros.) M. Light "Dorcas Jane" pink shade **3.50**
- Dorcas Jane** (Burkey). M. Long spikes of silvery pink. ½ tr. pkt., **\$1.50** **2.50**
- Gusto** (Yoder Bros.). E. "Dorcas Jane" pink color ... **3.50**
- **Pompey** (Yoder Bros.). M. Medium pink. Long spikes ... **3.50**
- Rockwood's Summer Pink No. 1** (Inbred). S. Medium rose. For late spring and summer only. ½ tr. pkt., **\$1.75**. **3.00**
- Rowenna** (Yoder Bros.). E. Similar to Wintergreen, but earlier **3.50**
- Wintergreen** (Yoder Bros.). M. Medium pink. Good commercial color **3.50**

ROSE

- **Bridesmaid** (No. 44, Ball). M. A clear medium rose reminiscent of Peggy Schumann with exceptionally long spikes of well placed, large florets. **Sold out till late June.** ½ tr. pkt., **\$2.00** **3.50**
- **Jackpot** (No. 43, Ball). M. Medium deep rose. Firm stems of medium length carrying long spikes with excellently spaced florets. A heavy producer. ½ tr. pkt., **\$2.00** **3.50**
- **Showgirl** (No. 42, Ball). L. Medium dark rose. One of the best in its color class for spring. Shatter-proof spikes. **Sold out till late June.** ½ tr. pkt., **\$2.00** **3.50**
- **Rosanna** (No. 9, Ball). M. A bright, deep rose with long tapering spikes. ½ tr. pkt., **\$2.00** **3.50**

The dot (●) indicates varieties most dependably satisfactory in our experience and observation.

FORCING SNAPDRAGONS

Complete List, Continued

(F) HYBRID All Snapdragons listed on these pages are genuine **(F) HYBRID** varieties except those marked "inbred" which are self-pollinated kinds. **(F) HYBRID**

ROSE—Continued

Tr. Pkt.

- Better Times (Inbred). M. Bright cerise-rose. ½ tr. pkt., \$1.25 **\$2.00**
- Christmas Cheer (Windmiller). E. Extra early, productive, bright rose. ½ tr. pkt., **\$1.75** **3.00**
- Delworth's Supreme (Inbred). M. Long stemmed, deep rose **1.50**
- Libby (J. S. Yoder). M. Dark rose. ½ tr. pkt., **\$2.00** .. **3.50**
- Maxine (Smith). E. Winter flowering medium rose. ½ tr. pkt., **\$1.75** **3.00**
- New Times (Pan-American). E. Bright, deep rose. Medium long spikes with firm stems. ½ tr. pkt., **\$1.75** ... **3.00**
- Peggy Schumann (Inbred). L. Beautiful creamy rose .. **2.00**
- Pensive (Yoder Bros.). M. Dark rose **3.50**
- Prestige (Yoder Bros.). M. Long spikes of medium rose with yellow lip. Growth somewhat grassy **3.50**
- Star Charter (Yoder Bros.). L. Medium deep rose for spring **3.50**
- Spartan Rose (Mich. State College). M. Medium deep rose with long heavy spikes. For late winter and spring only. ½ tr. pkt., **\$1.75** **3.00**

YELLOW

- Golden Spike (No. 1, Ball). M. A rich, deep golden yellow with long tapering spikes and close spaced florets. Best yellow for late winter and spring. ½ tr. pkt., **\$2.00**. **3.50**
- Broker's Tip (Yoder Bros.). M. Medium yellow for late winter and spring. Firm stems **3.50**
- Day Star (Yoder Bros.). E. Light yellow. Taller and a few days earlier than War Admiral **3.50**
- Ethel (Inbred). M. The best self-pollinated yellow **1.50**
- Goldrush (Winkler). M. Large flowered medium yellow. ½ tr. pkt., **\$2.00** **3.50**
- Patricia (J. S. Yoder). M. Medium yellow. ½ tr. pkt., **\$2.00** **3.50**
- Rockwood's Summer Yellow (Inbred). S. Fairly deep yellow. For late spring and summer only. ½ tr. pkt., **\$1.75** **3.00**
- Seabiscuit (Yoder Bros.). M. Medium yellow. Similar to War Admiral except somewhat later and taller **3.50**
- War Admiral (Yoder Bros.). M. Excellent medium yellow for mid-winter **3.50**
- Yellow Peggy Schumann (Inbred). L. For spring **2.00**
- Yolo Wonder (Windmiller). M. A rich yellow with large florets. ½ tr. pkt., **\$2.00** **3.50**

BRONZE

- Indian Chief (No. 6, Ball). L. Scarlet-bronze for spring. ½ tr. pkt., **\$2.00** **3.50**
- Barbara (J. S. Yoder). M. Large-flowered bronze with pink throat. ½ tr. pkt., **\$2.00** **3.50**
- Cavalcade (Yoder Bros.). M. A lively golden bronze ... **3.50**
- Gallant Fox (Yoder Bros.). M. Medium rosy bronze. Very fine **3.50**
- Jubilee (Winkler). M. Light golden bronze. Habit similar to Goldrush. ½ tr. pkt., **\$2.00** **3.50**
- Lady Dorothy (Inbred). E. Bright rosy bronze. ½ tr. pkt., **\$1.75** **3.00**
- Maryland Orange (Winkler). M. Large flowered rosy bronze. Hard stems. ½ tr. pkt., **\$2.00** **3.50**
- Sun Briar (Yoder Bros.). E. Medium bronze **3.50**



Phil Jones (left) and Bob Rieman comparing notes on our complete variety testing trials at West Chicago.

RED

Tr. Pkt.

- Cherokee (No. 60, New—Ball Exp. Hyb. No. 286X). E. & M. A true "Christmas" scarlet-red—not the crimson or wine-red color commonly grown. Long, well formed spikes with sturdy stems. Good winter or spring. Available late June. ½ tr. pkt., **\$2.00** **\$3.50**
- Navajo (No. 8, Ball). M. & L. We consider this the finest all-purpose red Snap available. Should be sown a week earlier than other varieties for winter. ½ tr. pkt., **\$2.00**. **3.50**
- Commando (Yoder Bros.). E. Tall growing copper-red shade **3.50**
- Man-O-War (New—Yoder Bros.). E. A copper-red shade with yellow lip. Similar in color to Commando but a cleaner grower with better flower placement **3.50**
- Maryland Red (Winkler). M. Large flowered bright red. Prefer Navajo. ½ tr. pkt., **\$2.00** **3.50**
- Priscilla Ann (J. S. Yoder). M. A wine-red, similar to Shisler's Red in color. ½ tr. pkt., **\$2.00** **3.50**
- Rockwood's Summer Red (Inbred). S. For late spring and summer only. ½ tr. pkt., **\$1.75** **3.00**
- Shisler's Red (Inbred). M. Attractive wine-red **2.00**

LAVENDER

- Lavender Lady (No. 71, Ball). M. A deep rosy lavender shade with excellent spikes and stems. For late winter and spring. ½ tr. pkt., **\$2.00** **3.50**
- Esquire (No. 72, Ball). M. Bright wine or fuchsia-purple. ½ tr. pkt., **\$2.00** **3.50**
- Ball Lavender (Inbred). L. Rosy lavender **1.50**
- Bold Venture (Yoder Bros.). E. Fuchsia-purple. Long stems and spikes **3.50**
- Maryland Lavender (New—Winkler). We have not had an opportunity to observe this variety which the originator describes as "a medium early, clear light orchid-lavender. Shatter-resistant." ½ tr. pkt., **\$2.00** **3.50**
- Rockwood's Lavender Rose (Inbred). S. For late spring and summer only. ½ tr. pkt., **\$1.75** **3.00**

MIXTURES

- Hybrid Formula Mixture. Mixture of Hybrid Snaps. ½ tr. pkt., **\$1.75** **3.00**
- Ball Forcing Mixture. Inbred or self-pollinated varieties. **1.00**

See Next Page for Notes on Snap Culture

Planning Your Snapdragon Crop

WHAT ABOUT SINGLE STEM CROPS?

Every year more growers are turning to single stem crops. Some are growing their Snaps this way exclusively; others find it fits nicely in rotations with other crops—or with a crop of pinched Snaps. The advantages are quite clear. Single stem crops are more uniform, of better over-all quality, and the crop cuts out 2 to 4 weeks sooner than a pinched crop, thus saving costly greenhouse time and space.

WHEN TO SOW?

Two growers can sow seed for winter Snap crops on the same day—and flower their crops a month apart. That points up the joker in tables such as the one that follows here. The flowering dates listed below will come out consistently within a week or two at the most on our own place. They are based on direct branching of all crops, use of raised benches throughout, carrying 50° nights, except for the last month or so at 45-47°.

Growers who have ground beds, who carry cooler temperatures, and who pot or band their seedlings should sow 2 to 4 weeks or more earlier than the sowing dates given below. Note that May sowings flower in a minimum of time and each sowing afterwards requires a longer growing period until November, at which time this trend reverses itself.

SINGLE STEM

Sow	Bench Seedlings	Flower	Spacing
Aug. 15	Sept. 3	Jan. 15	3 x 6 in. (4 x 5 for top quality. Also some varieties have thicker, heavier foliage — need more space).
Aug. 23	Sept. 11	Feb. 1	
Sept. 1	Sept. 25	Feb. 15	
Sept. 10	Oct. 4	Mar. 1	
Sept. 23	Oct. 17	Mar. 15	
Oct. 7	Nov. 1	Apr. 1	3 x 5 ins.
Oct. 22	Nov. 16	Apr. 15	
Dec. 1	Jan. 6	May 1	
Dec. 20	Jan. 25	May 15	
Jan. 10	Feb. 15	June 1	
Feb. 1	Mar. 1	June 15	3 x 4 ins. (3 x 5 for Rockwood varieties).
Mar. 1	Mar. 25	July 1	
Apr. 1	Apr. 23	July 15	
Apr. 23	May 15	Aug. 1	
May 7	May 25	Aug. 15	
May 23	June 10	Sept. 1	
June 7	June 25	Sept. 15	
June 23	July 11	Oct. 1	3 x 5 ins.
July 7	July 25	Oct. 15	
July 15	Aug. 3	Nov. 1	
July 20	Aug. 7	Nov. 15	
July 25	Aug. 12	Dec. 1	
Aug. 1	Aug. 19	Dec. 15	
Aug. 5	Aug. 23	Jan. 1	

Using the above table it's entirely possible to work out a practical year 'round schedule of 3 crops a year. Snaps also work nicely into rotations with Mums, Iris, lighted Asters, bedding plants, etc.

These factors all add up to **more money** in your pocket at the end of the season. The single stem method is especially worth while for the critical flowering period in midwinter. During this season of limited sunlight, Snap plants have difficulty manufacturing enough food to make 3 or 4 good spikes per plant. They **can** produce **one good** spike. This is also an important point to consider.

PINCHED CROPS

Sow	Bench Seedlings	Flower
July 5	July 23	Nov. 1
July 10	July 28	Nov. 15
July 15	Aug. 2	Dec. 1
July 20	Aug. 7	Dec. 15
July 25	Aug. 12	Jan. 1
Aug. 1	Aug. 19	Jan. 15
Aug. 10	Aug. 28	Feb. 1
Aug. 20	Sept. 8	Feb. 15
Sept. 1	Sept. 25	Mar. 1
Sept. 10	Oct. 4	Mar. 15
Sept. 20	Oct. 14	Apr. 1
Oct. 5	Oct. 29	Apr. 15
Nov. 10	Dec. 1	May 1
Dec. 3	Dec. 23	May 15
Jan. 1	Feb. 5	June 1
Jan. 15	Feb. 20	June 15

7 x 8 ins.

Normal spacing, four stems per plant. Some growers allow 8 x 8 on deep ground beds for Feb.-March crops.

VARIETIES

The ever-present question of variety preference is often a matter of personal likes or dislikes. In an attempt to avoid this pitfall, we've based these recommendations on not only our own observations but on reports from growers everywhere. Particular emphasis has been given to opinions expressed in trade gatherings where informal polls have been taken. The following varieties have all been widely and successfully grown under single stemmed culture as well as for pinched crops:

YELLOW: War Admiral, Golden Spike (for spring), Patricia.

WHITE and IVORY: Snowman, Pike's Peak, Twenty Grand, Citation, Spartan White, Rockwood's Crystal White (the latter for late spring and summer only).

PINK: Pink Ice, Christina, Wintergreen, Hercules.

MEDIUM ROSE: Rosanna, Showgirl, Jackpot, Libby.


DEEP ROSE: New Times.

BRONZE: Gallant Fox, Barbara, Cavalcade.


RED: Navajo.

LAVENDER: Lavender Lady, Bold Venture.


CHECK LIST FOR GERMINATION TROUBLES



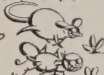
SUFFICIENT MOISTURE?
ABSOLUTE NECESSITY—
UNIFORM—NOT EXCESSIVE.




CORRECT TEMPERATURE?
—USUALLY 65°-70°—
SOME PLANTS COOLER.




SEEDS COVERED TOO DEEP?
AIR IS AS ESSENTIAL AS HEAT
AND MOISTURE!!! FINE SEEDS
REQUIRE LITTLE OR NO COVER
—WILL "WASH" INTO SOIL.



**ANTS-MICE — MORE
OFTEN RESPONSIBLE
THAN PEOPLE GENERALLY
REALIZE—EVEN FLORISTS!**



**CLEAN, DISEASE-FREE
STERILIZED MEDIUM?**



**YOUR SEEDSMAN IS ONLY
HUMAN-- DOES HIS BEST.
IF YOU THINK HE IS AT
FAULT, WRITE AND GIVE
HIM A CHANCE TO HELP!**

ABOVE ALL, REMOVE SEEDLINGS TO COOL AIR AND PLENTY OF LIGHT
AS SOON AS SPROUTED — BEST DAMP-OFF PREVENTATIVE!

Tips On Snap Culture

Soils

Good Snaps can be grown in a wide variety of soils. As a general rule any soil that will grow good Mums will grow good Snaps. The really important point is that it contain **plenty** of organic matter. While this may take the form of manure, be sure it is well rotted. As a matter of fact, peat is generally preferred because the bacteria which are necessary to decay manure rob the soil of essential plant nutrients.

The amount of organic matter which a soil needs depends upon its basic structure. Heavy, clay-like soils will need more than loose, sandy sorts. If an average good garden or field soil is to be used, one part of organic matter should be incorporated with each two or three parts of soil. To this should be added three pounds of 20% superphosphate per 100 square feet of bench area before steaming. Other than this we prefer to depend upon regular feedings as soil tests indicate their need, rather than to load the soil with too much fertilizer to start with.

Sterilizing

We like to steam sterilize our soil at least once a year, too. It cleans up disease organisms, kills soil-borne weed seeds and insects and tends to improve the soil's physical condition. Low (8 to 10 lbs.) steam pressure does the job for us. Holding soil temperatures at 180° for half an hour after this temperature has been reached is all it takes. After sterilizing, a heavy leaching with clear water will tend to prevent an excessive build-up of nitrates which might injure young roots.

Seed Sowing

Vermiculite, peat, or soil and peat mixtures all make satisfactory materials for germinating Snap seed. We like to have the flats well watered before sowing, which may be done either broadcast or in shallow rows. We prefer the latter since it permits better aeration after the seedlings get started. No additional soil covering is needed for this fine seed—a light misting with a fine spray will settle it into the soil. If weather is hot or windy, flats should be protected with cheesecloth or paper shade until well up, then they will enjoy full light and a cooler, airy location. Seeds should germinate in 3 or 4 days in summer, 7 or 8 days in winter in a night temperature of 60°.

Planting

If bench space is available, we like to bench seedlings direct—less labor and better growth. It works nicely even in hot weather if the soil is moist before benching, seedlings are planted shallow, and misted within minutes of benching and regularly until new roots show.

In regard to the matter of spacing, we believe 3 x 6 inches is the most economical and profitable for a winter single stem crop with 3 x 5 inches being enough for late spring and summer crops.

We space our pinched crops 7 x 8 inches, finding this satisfactory for most varieties. If you are obliged to transplant, band or pot seedlings, do not pinch them until plants have been benched and have taken hold. To pinch before benching will usually result in only two top breaks rather than the four or so that each plant should produce. We like to pinch when plants are about eight inches high, leaving three good pairs of leaves.

Watering, Feeding, Temperatures

Watering Snaps, as with any other crop, is largely a matter of good judgment. Small plants in dark winter weather may not need watering for weeks, whereas a heavy crop in spring may need attention every other day. A good rule is: don't water until the soil begins to dry, then give it enough to soak through to the bottom.

We depend on regular weekly soil tests to determine when to feed. In winter we like to maintain the following nutrient levels: nitrates 20-25 parts per million Spurway, potash 20-25 parts, and phosphate 3-5 parts. During the rest of the year nitrate and potash readings should be around 40 parts per million for best growth. If soil tests indicate a feeding need, it may be applied in dry or liquid form. We use the latter because it is simpler to apply and more easily controlled.

Normal temperatures during firing season: nights 50°, cloudy days 57°, sunny days 65°. If we experience 2-3 weeks of cloudy weather in winter, we gradually drop to 45-52-60° till sunny weather returns. Failure to drop temperatures in dark weather causes stubby spikes and soft stems.

Insects and Diseases

If ever the old saying about "an ounce of prevention" is true, it certainly is when it comes to controlling insects. Spray regularly—don't wait for them to appear. Our standard spray for controlling practically all insects—plus mildew: per 10 gallons of water—2½ ozs. Parathion 15% wettable powder, 1½ ozs. DDT 50% wettable powder, 1½ ozs. wettable sulphur, 2½ ozs. Fermate, plus 2 ozs. Drest or other spreader.

Principal disease problems with Snaps are Botrytis rot and mildew. Good air circulation plus heat on damp, chilly days will help to prevent both, as will care in watering to avoid undue wetting of the leaves. Fermate and sulphur (incorporated in the spray mixture mentioned above) will aid in controlling mildew, while Parzate and Captan are reported to give good control of Botrytis.

Supporting the Crop

We use conventional wire and cross string supports, finding one set, which may be raised as the crop grows, enough for single stem Snaps. Two sets are ample for a pinched crop with stems of different lengths.

VARIETIES FOR NOVEMBER AND DECEMBER BLOOMING

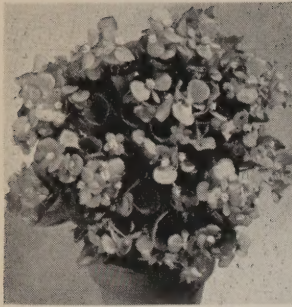
White	Yellow	Bronze	Light Pink	Medium Pink	Rose	Red	Lavender
Schlegel's White	Day Star	Lady Dorothy	Whirlaway	Gusto	Christmas Cheer	Cherokee	Bold Venture
White Knight		Sun Briar		Rowenna	Maxine	Commando	
					Prestige	Man-O-War	
					New Times		

VARIETIES FOR JANUARY THROUGH APRIL BLOOMING

White	Yellow	Bronze	Light Pink	Medium Pink	Rose	Red	Lavender
Snowman	Golden Spike	Barbara	Christina	Pink Ice	Bridesmaid	Cherokee	Lavender Lady
Apollo	Broker's Tip	Cavalcade	Mary Ellen	Flower Girl	Jackpot	Md. Red	Md. Lavender
Citation	Ethel	Gallant Fox	Top Flight	Holiday	Rosanna	Priscilla Ann	Esquire
Ivory Tower	Goldrush	Jubilee	Md. Pink Imp.	Chev. Maid No. 33	Better Times	Shisler's Red	
Margaret	Patricia	Md. Orange	Rosebud	Crusader	Libby	Navajo	
Md. White	Seabiscuit		Native Dancer	Dorcas Jane	Pensive		
Spartan White	War Admiral			Chevy Chase Pink	Spartan Rose		
Twenty Grand				Pompey	Prestige		
Albion				Wintergreen			

VARIETIES FOR MARCH THROUGH MAY BLOOMING

White	Yellow	Bronze	Light Pink	Medium Pink	Rose	Red	Lavender
Pike's Peak	Yellow Peggy	Indian Chief	Hercules	Anne Marie	Showgirl	Navajo	Ball Lavender
Junglewood White	Schumann	Md. Orange	Rosebud		Peggy Schumann		
Snowdrift (Dbl.)			Trilbee Pink		Star Charter		
Tommy Armstrong							



Fibrous Rooted Begonia

Ball Begonias

FIBROUS ROOTED

30,000 seeds per 1/32 oz. Begonias are equally "at home" in 5-inch pots, as less expensive plants in 3 or 4-inch pots, and in combinations of all sorts. They will do well in the low light, high temperature conditions of modern homes.

Culture. Use neutral (non-acid) peat for germination; no covering over the seed (except paper till they sprout). Keep surface of flat moist. Use half peat, half soil for potting. They must have 60° to keep them moving—and greenhouse shade in summer. For 3-inch in flower for Christmas, sow August 1; for spring holidays; figure about 16 weeks for 3-inch blooming plants; 20 weeks for 4's.

EXTRA DWARF

- **Ball Dwarf Carmen.** Compact habit with rich bronze leaves and light pink flowers. Tr. pkt., \$1.50; 1/64 oz., \$3.50.
- **Saga.** Extra dwarf and dense growth. Small, bright red flowers. Tr. pkt., \$1.50; 1/64 oz., \$4.00; 1/32 oz., \$7.50.

DWARF CLASS

- **Adeline.** Very free flowering bright pink; dwarf and compact. Tr. pkt., \$1.50; 1/64 oz., \$3.25; 1/32 oz., \$6.00.
- **Ball Deep Rose.** In winter the color is a deep rosy red which gradually fades to a luminous pink during warm weather. Tr. pkt., \$1.50; 1/64 oz., \$3.25; 1/32 oz., \$6.00.
- **Ball Red.** Medium large flowers of bright true scarlet are freely produced on fairly dwarf, uniform plants. Tr. pkt., \$1.50; 1/64 oz., \$3.25; 1/32 oz., \$6.00.
- **Ball White.** Rather small flowers but very freely produced. Tr. pkt., \$1.50; 1/64 oz., \$3.00; 1/32 oz., \$5.50.
- **Flamingo.** (New). Bicolor white with pink edge. Tr. pkt., \$1.50.
- **Luminosa Compacta.** Dwarf, free flowering scarlet-red, with green foliage tipped with red. Tr. pkt., \$1.50; 1/64 oz., \$3.00; 1/32 oz., \$5.50.
- **Snowbank.** Large, glistening white flowers are carried on dense growing, even plants. The best white. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.
- **Dwarf Varieties Mixed.** Our own formula mixture of dwarf varieties. Tr. pkt., \$1.00; 1/64 oz., \$2.50; 1/32 oz., \$4.50.

INTERMEDIATE CLASS

● SPARKLER

Large flowers of brilliant orange-salmon with each petal base a contrasting creamy white. The only true salmon Begonia we have ever seen.

Tr. pkt., \$1.50; 1/64 oz., \$3.25; 1/32 oz., \$6.00.

- **Carmen.** Bright rose-pink flowers with rich bronze leaves. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.
- **Indian Maid.** Foliage a deep lustrous bronze with scarlet flowers. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.
- **King of the Reds.** Free flowering carmine-red; vigorous growth. Tr. pkt., \$1.25; 1/64 oz., \$2.50; 1/32 oz., \$4.75.
- **Luminosa.** Very attractive and popular bright red, with green foliage tipped with red. Tr. pkt., \$1.25; 1/64 oz., \$3.00; 1/32 oz., \$5.50.
- **Prima Donna.** Medium rose-pink. Prefer Scandinavia Pink. Tr. pkt., \$1.25; 1/64 oz., \$2.00; 1/32 oz., \$3.50.
- **Salmon Queen.** Salmon shaded rose. Tr. pkt., \$1.25; 1/64 oz., \$2.50; 1/32 oz., \$4.50.
- **Scandinavia Pink.** Very free flowering bright rose-pink. Fine bushy habit. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.
- **Scandinavia Red.** Identical to the above except for its bright red flowers. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.

Scandinavia White. A white Scandinavia selection. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.

White Pearl. Medium sized white flowers with green leaves, tinged pink; reddish stems. Tr. pkt., \$1.25; 1/64 oz., \$2.50.

Intermediate Varieties Mixed. Made up of the above separate colors. Tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$3.75.

TALL CLASS

Christmas Cheer. Large flowered, rose-red. Tr. pkt., \$1.00; 1/64 oz., \$2.00; 1/32 oz., \$3.75.

Masterpiece. Extra large flowered, light pink. Tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$4.00.

Pink Radio. Extra large flowered, rich rose. Tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$4.00.

Silver Wings. Extra large, pure white flowers. Tr. pkt., \$1.00; 1/64 oz., \$2.00; 1/32 oz., \$3.75.

Tall Varieties Mixed. A formula mixture of the above strong growing sorts. Tr. pkt., \$1.00; 1/64 oz., \$2.00; 1/32 oz., \$3.75.

HYBRID (HETEROSIS) STRAINS

Seed of these varieties is produced by the same method as Hybrid Snaps and Petunias. For absolute uniformity they're unexcelled. Why not grow some this year?

- **Pink Profusion.** A vigorous, dense grower with freely produced coral-pink flowers and green leaves with red veins. Did exceptionally well in outdoor trials exposed to full sun and high temperatures. Try this for bedding. Tr. pkt., \$1.50.

Pink Tausendschon. Dwarf. Bright pink; closely resembles Adeline and Pink Pearl in habit. *Originator's seed.* Tr. pkt., \$1.50.

- **Red Tausendschon.** Same as Pink Tausendschon except for color. *Originator's seed.* Tr. pkt., \$1.50.

- **Pink Pearl.** Resembles Adeline in flower size, rich pink color and uniformly dwarf, compact growth. *Originator's seed.* Tr. pkt., \$1.50.

- **Red Pearl.** Dwarf. Identical to Pink Pearl except for its Luminosa-red color. *Originator's seed.* Tr. pkts. only, \$1.50.

OTHER BEGONIAS

TUBEROUS ROOTED SEPARATE COLORS

Superb Camellia-flowered, double strains from one of the world's foremost Tuberous Begonia specialists.

Red	Orange	Salmon
Yellow	Scarlet	Rose
Copper	White	

Prices above 8 separate colors,
each: 1/2 tr. pkt., \$1.75;
tr. pkt., \$3.00.



- **Tuberous Rooted Double Mixed.** Camellia-flowered. Our flowering trials have consistently produced compact plants with 90% good doubles. Gorgeous colors. 1/2 tr. pkt., \$1.75; tr. pkt., \$3.00.

Lloyd's Mixed. Pendulous. Double flowers, about 2 inches, in shades of scarlet, rose, salmon and white. Fine for hanging baskets. Tr. pkt., \$3.00.

Doty's Calla Queen. A novelty Fibrous Rooted Begonia with attractively variegated green and white foliage which contrasts vividly with its red and pink flowers. Needs pinching. 1/2 tr. pkt., \$1.75; tr. pkt., \$3.00.



CALCEOLARIA, BALL MULTIFLORA NANA

Calceolarias

20,000 seeds per $\frac{1}{32}$ oz. Calceolarias aren't at all difficult to grow from seed if a few simple requirements are met. In sowing use only loose, sterilized material—night temperature 60°. The seed is very fine and no soil covering should be used. When large enough to handle, they should go into $2\frac{1}{2}$ -inch bands—later into 4- or 5-inch pots for finishing. After banding, a 48° house will suit them nicely. A regular insect control program is essential (aphis will wreck them in no time). We spray once a week with Parathion. From late February on they'll need protection from direct sun. Water only when dry; "wet feet" will cause yellowing of foliage.

● HYBRID MIXED **HYBRID**

Brilliant reds and rich yellows (some spotted with contrasting maroon) make up this outstanding blend of genuine F₁ Hybrids—the first ever offered in Calceolarias. Flowers are medium in size but produced in great cloud-like heads. Because of the exceptional vigor of this strain, it should be finished in 6-inch pots rather than 5's. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00.

● **Ball Multiflora Nana Mixture.** Large heads of medium sized flowers in brilliant reds, yellows and intermediate shades. The dwarf plants are wiry in growth with small durable leaves which make for ease in handling and shipping.
Tr. pkt., \$2.00; $\frac{1}{128}$ oz., \$4.00; $\frac{1}{64}$ oz., \$7.20; $\frac{1}{32}$ oz., \$13.00.

● **Dwarf Tigered or Spotted.** Medium large flowers in spotted shades of red, yellow and rosy bronze. Dwarf and compact.
Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

Perennial Hybrids (Rugosa). Large heads of quite small flowers in a brilliant color mixture. Tr. pkt., \$1.25.

● **Extra Early Tigered.** Solid heads of medium large flowers on dwarf plants; good color range. The outstanding feature of this strain is its earliness. It blooms a full month before other varieties, therefore costs you less to grow.
Tr. pkt., \$2.00; $\frac{1}{128}$ oz., \$4.00; $\frac{1}{64}$ oz., \$7.20; $\frac{1}{32}$ oz., \$13.00.

● **Grandiflora Dwarf Mixed.** Extra large ($2\frac{1}{2}$ in.) flowers in unusual and striking colors are carried on fairly dwarf plants.
Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Triumph Strain. Medium large flowers; mostly bright reds and yellows. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Cinerarias

Colorful Cinerarias offer a welcome spring change in your customer's diet of the usual winter pot plants, and if the smaller leaved varieties like Cremer's and Festival are used they'll take less bench space, cost less to grow. Finish some in 4's as well as 5's for those of your customers who want less expensive plants.

Seed is usually sown from late July through September for winter and spring pot plants. Transplant the seedlings to $2\frac{1}{2}$ -inch plant bands as soon as they can be handled. Before they become root-bound, shift into their final sized pot. While this method calls for a little care in preventing over-watering until they make new roots, it produces better results than handling them in small pots.

Berlin Market Mixed (White-Eyed or Weissensee Strain). 3500 seeds per $\frac{1}{32}$ oz. Large rounded heads of medium large flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

● **Cremer's Prize Strain.** (Our own reselected stock.) 6300 seeds per $\frac{1}{32}$ oz. Extra large heads of medium small flowers in widely varied color assortment; about half light-eyed. Small foliage. Tr. pkt., \$1.75; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50; $\frac{1}{16}$ oz., \$8.25.

● **Dwarf Erfurt Mixture.** 140,000 S. Dense heads of medium sized flowers in a fine color balance, including copper, salmon, and maroon in addition to the usual Cineraria colors. Habit is compact and very uniform. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50.

Dwarf Giant Exhibition Mixture. Extra large flowers on medium dwarf plants. For exhibition work only.
Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.75.

● **Festival.** This is our own small-leaved strain requiring a minimum of bench space. Plants are bushy and compact with even heads of medium sized, mostly white-eyed flowers in a brilliant color range. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00; $\frac{1}{64}$ oz., \$4.50; $\frac{1}{32}$ oz., \$7.50; $\frac{1}{16}$ oz., \$13.00.

Grandiflora Dwarf Mixed. 3500 seeds per $\frac{1}{32}$ oz. Large flowers in rich colors with contrasting large white eyes. Dwarf growth. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

H. & S. Super Giants Superb Mixed. (New.) Similar to Dwarf Giant Exhibition Mixture. A fine strain in a complete color range. *Originator's seed.*
Tr. pkt., \$1.75; $\frac{1}{64}$ oz., \$3.30; $\frac{1}{32}$ oz., \$6.00; $\frac{1}{16}$ oz., \$11.00.

● **Multiflora Nana, Gold Center.** 6,300 seeds per $\frac{1}{32}$ oz. Attractive medium small, solid-colored flowers with yellow anthers. Good shipper. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

● **No. 1 Mixture.** Consists of Cremer's Prize Strain and Siter's Rainbow Strain in equal proportions.
Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.75.

● **No. 2 Mixture.** Contains $\frac{1}{2}$ Cremer's Prize Strain and $\frac{1}{4}$ each Siter's Rainbow Strain and Multiflora Nana, Gold Center strain. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.75.

● **Siter's Rainbow Strain.** 3,500 seeds per $\frac{1}{32}$ oz. Immense heads of medium large, mostly white-eyed flowers. A first class strain. Tr. pkt., \$2.00; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00; $\frac{1}{16}$ oz., \$9.00.

Stellata Mixture (Star type). Small, free flowering strain. 24 to 30 in. tall. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.50.

● **"Vivid" Formula Mixture** 162,000 S. A complete mixture of solid colors (without "eyes"). Dwarf with well-rounded heads and fairly small leaves. Blooms about a month later than other strains. Tr. pkt. (1000 seeds), \$1.75; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00. Also available in the following separate colors at the same price: **White, Bright Red, Dark Red, Brick-Red (Mata-dor), Light Blue, Mid-Blue, Dark Blue, Pink Shades and Salmon.**



Otto Panzer, whose originator strain of Panzer Scarlet Gloxinia seed is used in Panzer's extensive plant sales in the Pacific Northwest.

Gloxinias

● PANZER SCARLET—Originator's Seed

This deep, bright velvety red is the color in Gloxinias—Mr. Panzer produces many thousands of Gloxinias for shipping and offers this color only. Mr. Panzer has reselected his popular strain and we now offer it with the assurance that it has no peer in commercial Gloxinia seed strains. Tr. pkt., \$3.00; 5 tr. pkts., \$13.50.

Formula Mixture. Made up of choice named separate color varieties. All colors except yellow are represented including bicolors and spotted types. Tr. pkt., \$1.25; 6 pkts., \$6.00. Also available in the following separate colors at the same price: Scarlet, Scarlet and White, Violet, Violet and White, Tigered and Spotted, White, Rose.

IMPORTED FLEXIBLE-LEAVED STRAIN

This new strain is reported by its originator to have softer and more flexible leaves than the ordinary type, permitting it to be handled and packed without danger of leaf breakage.

Blood Red

Blue

Prices above 2, each: tr. pkt., \$2.00; 1/28 oz., \$6.00.

Ball Cyclamen

	100 Seeds	1000 Seeds		100 Seeds	1000 Seeds
No. 1 Dark Blood-Red	\$1.90	\$17.50	No. 18 Mozart. Deep pink	\$2.50	\$22.00
● No. 2 Bright Red	1.90	17.50	No. 19 Lavender. Fuchsia-orchid	1.90	17.50
● No. 3 Pure Rose (Rose of Aalsmeer). Medium salmon-pink	1.90	17.50	No. 21 Pink Pearl. Salmon-pink	2.50	22.00
No. 4 Soft Rose with carmine eye. Lavender-rose; wine-red eye	1.90	17.50	No. 22 Baardse Wonder. Salmon with white border	2.50	22.00
No. 5 White with carmine eye	1.90	17.50	No. 24 Roseum Oculatum. Light pink, salmon eye	2.40	20.00
● No. 6 Pure White	1.90	17.50	No. 26 Victoria. Fringed white, tipped red ..	2.50	22.00
● No. 7 Bonfire. Brilliant scarlet-salmon ..	2.50	22.00	● No. 30 Mixture of above colors	1.80	16.50
No. 8 Salmon-Scarlet (America Imp.). ...	2.50	22.00	No. 50 Ruffled Lavender	2.50	23.00
No. 9 New Salmon-Rose Imp.	2.50	22.00	No. 51 Ruffled Salmon	2.50	23.00
● No. 10 Glory of Wandsbek (Perle of Zehlendorf). Bright, deep salmon	2.40	20.00	No. 52 Ruffled White	2.50	23.00
● No. 11 Rose of Zehlendorf. Light salmon ..	2.40	20.00	No. 53 Ruffled Dark Red	2.50	23.00
No. 12 Orange Beauty. Orange-vermilion ..	2.50	22.00	● No. 60 Ruffled Mixture	2.50	23.00
No. 13 Rococo Mixed. Fringed flowers; unusual shapes and markings	2.50	22.00			
No. 16 Saffron Red, Silver Edged	2.50	22.00			
● No. 17 Striped Varieties Mixed. Unusually showy and attractive	2.40	20.00			

VOGT'S DOUBLE-FLOWERED STRAIN

Admiration. Salmon-rose with shaded eye. Mixture.

Prices above 2, each: 100 seeds, \$3.75; 250 seeds, \$7.75; 500 seeds, \$14.50.

For Perennial Cyclamen, see page 15.

DISCOUNTS—In addition to our regular cash discounts, the following special discounts are allowed on Cyclamen seed: 250 of a variety at 1000 rate (except Vogt's); 10,000 to 25,000 seeds, any assortment, 5%; over 25,000, 10%.

Calendulas

GREENHOUSE VARIETIES (3,000 seeds per oz.)

Start in July or August and grow cool—not over 45° nights during fall and winter. They will not thrive in Carnation-house

- Ball Imp. Long Orange. Long stemmed and large flowered.
- Ball Masterpiece. Deep glowing orange with dark eye.
- Ball Lemon Queen. Lemon-yellow with dark brown eye.
- Ball Gold. Deep golden yellow with light eye.

Prices above 4, each:

Tr. pkt., 50c; 1/4 oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$9.00.

temperature. They need regular disbudding and prefer ground beds; otherwise they are very easy and inexpensive to handle.

Ball Formula Mixture. Carefully made up of our named varieties with fully half orange.

Ball Art Shades Mixture. Contains many original and unusual shades and interesting bi-colors.

Prices above 2, each:

Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.40; 4 ozs., \$7.20.

For seed varieties not listed here, see our spring catalog.

Annual Larkspur

8,000 seeds per oz.

For Early Summer Cut Flowers Outdoors: If a sowing is made outdoors by growers in the near South 6 or 7 weeks before the ground freezes, plants well enough established to winter over in all except the most severe seasons can be produced. In the North sowing should be done as early in the spring as the soil can be worked—just as soon as the frost is out of the ground.

Under Glass—Spring Flowering: For indoor growing, Larkspur is a nice crop to follow either early or late Mums. Well started, 3-inch, banded or potted plants should be ready, and are produced by a September or later sowing. Space at least 12 x 12 in. on ground beds; 10 x 10 in. on raised beds should be ample. The after-Mum planting is generally started out cool, 45° nights, increasing to 50° or more with spring weather. Height indoors 4 to 5 ft.

New Crop Seed is always most reliable for sowing under adverse conditions of summer heat. We have a special source for Larkspur seed (7 best varieties only) permitting delivery in early July. If you order in early summer, please specify whether you prefer to wait for new crop. After August all orders are filled with new crop seed.

Germination: Larkspur seed doesn't germinate well in high temperatures. If it must be sown when hot, better do so in flats set under a bench or in a cool shed. It requires 2 to 3 weeks to come through, sometimes longer.

SUPER MAJESTIC

- **Deep Salmon-Pink.** Medium deep rose.
- **Lavender.** Beautiful lavender-mauve.
- **Light Blue.** See 7 Best above.
- **Rose-Pink.** Excellent deep rose.
- **Rosy Mauve.** Rich dark lilac shade.
- **White.** Long-stemmed pure white.
- **Mixture** of above and other colors.
- Prices above 7, each: tr. pkt., 30c; ½ oz., 90c; 1 oz., \$1.60; 4 ozs., \$5.25; 1 lb., \$16.00.

REGAL TYPE

- **Regal White.** Fine, compact spikes.
- **Regal Rose.** Rich deep rose with fine, heavy spikes and large, double florets.
- **Regal Salmon-pink.** See 7 Best, above.
- Prices above 3, each: tr. pkt., 40c; ½ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

Primula Malacoides

12,000 seeds per ½ oz. Baby Primroses, as they are often called, provide the grower with one of his most valuable sources of colorful material for Valentine's Day and early spring combination boxes. You'll find they move readily as pot plants, too. 3's and 4's are the most profitable sizes, and they can be had from late January on by sowing from August to October.

Malacoides Primulas are of easy culture if they are grown in an airy, cool house (45° night temperature) and not allowed to get dry between waterings. Equally important is the avoidance of fertilized soil in the seed flat or early stages of growth.

Brightness **HYBRID** The first F₁ Hybrid Primula ever offered! Flowers are a rich, luminous, deep rose and, as observed in our trials, Brightness was "head and shoulders" above any other variety in uniformity, vigor and profusion of blooms. A genuinely outstanding Primula. Tr. pkt., \$1.25.

● **Glory of Riverside Imp.** An excellent variety with freely produced, beautiful salmon-rose flowers.

"7 BEST"

This list is based on our greenhouse flowering trials. Generally strains which are found best under glass seem also best adapted to outdoor culture.

- **Salmon Supreme.** Medium salmon-rose; heavy, fully double spikes.
- **Dark Blue Supreme.** Deep violet-blue; improves Blue Spire.
- **Lilac Supreme.** The best clear lavender; no orchid shading.
- **White Supreme.** The most vigorous white according to our trials.
- **Regal Salmon-Pink.** A shade lighter than Salmon Supreme. Very nice.
- Prices above 5, each: tr. pkt., 40c; ½ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.
- **Super Majestic Light Blue.** An excellent light blue; outstanding.
- **Giant Imperial Brilliant Rose.** Deepest rose of all; fully double.
- **7 Best Mixture.** Blended by formula from these 7 varieties.
- Prices above 3, each: tr. pkt., 30c; ½ oz., 90c; 1 oz., \$1.60; 4 ozs., \$5.25; 1 lb., \$16.00.
- COLLECTION:** One tr. pkt. each of above 7 varieties for \$2.35.

SUPREMES

- **Dark Blue Supreme.** See 7 Best, above.
- **Lilac Supreme.** See 7 Best, above.
- **Rose Supreme.** Clear deep rose.
- **Salmon Supreme.** See 7 Best, above.
- **White Supreme.** See 7 Best, above.
- **Supreme Mixture.** All Supreme colors.
- Prices above 6, each: tr. pkt., 40c; ½ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

HYACINTH-FLOWERED

Produces one long non-branching spike. Early and non-shattering. For greenhouse use only.

Dark Blue	Lavender	Pink
Purple	White	Mixed
Prices above 6, each: tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.00.		

● **White Giant.** Fine pure white; large flowers and heavy stems.

● **Brilliancy Imp.** Large flowers of rich wine-red.

● **Mrs. Eriksson of Riverside.** Large flowers of glowing rose-red on compact plants of medium height.

● **Ball Lavender.** Bright orchid-lavender.

● **Mixture.** Our own balanced formula mixture.

Prices above 6, each:
Tr. pkt., \$1.25; ¼ oz., \$2.75; ½ oz., \$5.25.

● **Red Velvet.** Newly opened flowers are a bright coral-rose changing to deep, velvety crimson-red as they mature.
Tr. pkt., \$1.50; ¼ oz., \$2.50.

DOUBLE MALACOIDES

● **Fairy Jewels.** Double pink.
Tr. pkt. (1000 seeds), \$1.50; ¼ oz., \$2.50.

Primula Obconica

4,000 seeds per $\frac{1}{32}$ oz. These colorful and showy plants still provide the grower with one of his best sources of mid-winter pot plant material. In spite of their effect on some people's skin, they continue to be widely grown and called for.

Sowings made during June and July will produce nice pot plants for late winter and spring. We carry them along in 2½-inch bands from the seed flat, shifting when ready to their final size pot. Important points are a soil that drains readily and a cool, well shaded location during the summer. Fasbender's Red and Mohnstein's Red are the preferred reds; Berlin Rose is the best pink. Blue and white are wanted in smaller quantities.

- **Fasbender's Red.** An outstandingly fine, extra large flowered deep crimson-red.
- Better Days.** Bright carmine-red.
- Mohnstein's Red** (Atrosanguinea). Popular deep red.
- **Mueller's Berlin Rose** (Mueller's Rosea). Soft medium rose.
- Salmon-Rose** (Lachsrosa). Salmon-rose shades.

Sky-Blue (Coerulea). Clear mid-blue.

Violet-Blue. Deep violet.

White. Rather tall growth.

Wyaston Wonder. A special selection of this famous English variety. Vigorous growing, large flowered bright crimson.

- **Formula Mixture.** Carefully blended from above colors.

Prices last 10, each:

Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

PRIMULA CHINENSIS

(Chinese Primula)

18,000 S. A popular class with many retail growers. Very colorful and showy. Sow from March on for Christmas and later.

Kardinal. Vivid, intense orange. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$5.00.

Special Mixture. A choice assortment of colors.

Tr. pkt., \$1.25; $\frac{1}{32}$ oz., \$3.75.

Branching Stocks

TRYSOMIC HI-DOUBLE STOCKS

An unusual new race of branching Stocks which, according to the originator, makes use of scientific plant breeding principles to produce 80-85% double flowering plants.

Chamois. Buff-pink.

Bright Rose.

Canary-Yellow.

White.

Fiery Red.

Trysomic Hi-Double Mixture.

Lilac-Lavender.

Navy Blue.

Prices above 8, each: $\frac{1}{2}$ tr. pkt., \$1.00; tr. pkt., \$1.75; $\frac{1}{8}$ oz., \$2.90; $\frac{1}{4}$ oz., \$5.00.

Trysomic 7-Week Mixture (New). Complete color range. $\frac{1}{2}$ tr. pkt., \$1.00; tr. pkt., \$1.75; $\frac{1}{8}$ oz., \$2.90; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$18.00.



Trysomic 7-Week Mixture blooming in flat for plant sales

IMPROVED BISMARCKS

Apple Blossom. Pale, delicate pink.

Golden Ball. Ivory-yellow.

Blood-Red. Ruby-red.

- **Lavender.** Lilac-lavender.

Chamois. Chamois or buff.

- **Rose.** Bright rose-pink.

- **Elk's Pride.** Rich purple.

Shasta. White.

Formula Mixture.

Prices above 9, each: tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

GIANTS OF CALIFORNIA

Stronger growing than the Bismarcks.

Golden Gate. Soft, creamy yellow.

Pacific. Fairly dark lilac-mauve.

Redwood. Bright ruby-red.

Santa Barbara. Chamois or buff.

- **Santa Maria.** Best branching white.

Tahoe. Clear lavender.

- **Yosemite.** Rich rose-pink.

Prices above 7, each: tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.40; 1 oz., \$4.75.

Mixture of all colors in this class.

Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

BROMPTON or WINTER

Early Harbinger. Mixed colors. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

DWARF TEN WEEK

Makes very attractive pot plants.

Blood-Red **Carmine-Pink** **Lavender** **Canary-Yellow**
Deep Rose **Purple** **White**

Formula Mixture

Prices above 8, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

Hansen's ALL-DOUBLE Select Stocks

Light leaved doubles and dark leaved singles—apparent in the seedling stage at 50°—provide a positive means of separating singles from doubles in this strain. **Stems are about one-half as long as the regular Ball type Column Stocks.**

NON-BRANCHING

Shell-Pink **Rose** **Lilac-Lavender** **White**

Prices above 4 varieties, each: tr. pkt., \$1.50; $\frac{1}{16}$ oz., \$2.70; $\frac{1}{4}$ oz., \$9.00.

BRANCHING

Dwarf Park Mixed. A dwarf branching type of the All-Double Select Stocks described above. Tr. pkt., 75c; $\frac{1}{16}$ oz., \$1.20; $\frac{1}{4}$ oz., \$4.00.

See Page 12 for Non-Branching Stocks



Left to right, five popular non-branching varieties. Lilac-Lavender, Minaret, Purple Heart, Ball White No. 16, and Ball Supreme No. 22.

Ball COLUMN Stocks

(NON-BRANCHING)

(See Page 11 for Branching Stocks)

16,000 S. The most important points in growing good greenhouse Stocks are: (1) plant only in steam-sterilized or fresh soil to avoid root rot; (2) grow them cool—not over 50° nights. A spacing of 3x6 inches is ample for good quality and they may be safely sown in our latitude from July 15 to February 15. Later sowings may come blind. Constant breeding and selection maintain a uniformly high percentage of doubles in our strains, which may be further increased if the largest seedlings are selected in planting or thinning.

Our best greenhouse varieties are dotted (●).

PINK, ROSE and RED

Pacific Pink. A bright, luminous salmon-rose-pink without the bluish or orchid cast of other pinks and roses. Somewhat later than most Column Stocks, and is at its best in spring.

● **No. 22 Ball Supreme.** A long-stemmed, vigorous growing variety with fine, heavy spikes of rich silvery rose.

No. 11 Ball Pink. A medium pink. Earlier and somewhat lighter than our No. 22 but not quite as long-stemmed.

No. 14 Ball Rose. An early flowering, fairly deep rose-pink. Darker in color than Supreme No. 22.

No. 9 Chamois-Pink. A warm rosy buff color. Good stems and flower spikes.

No. 7 Malmaison Pink, Improved. Long stems and spikes of soft shell-pink. A popular color.

No. 6 American Beauty. Rich deep American Beauty or carmine-rose.

● **No. 8 Ruby Improved.** A brilliant scarlet-crimson without the purple cast of other reds.

U. S. D. A. DOUBLE PINK

A U. S. D. A. development which improves the Hansen dark-leaved single, light-leaved double strain. Light-leaved doubles may be selected in seedling stage. In our greenhouse trials stem length was greater than Hansen's but not as long as regular Columns. Doubles retain some light leaf color in blooming stage.

MISCELLANEOUS VARIETIES

● **No. 20 Ball Apricot.** Long spikes of rich apricot tinged pink.

No. 24 Deep Apricot Improved. Darker than No. 20.

No. 17 Gold Standard. Creamy ivory-yellow.

No. 26 BUTTERSCOTCH

This fine, creamy yellow is a definite improvement over present strains in stem length, flower size and color. Highly recommended.

Yellow Wonder. Popular ivory-yellow for outdoor growing. Branches slightly.

No. 10 Mixture. Our own formula mixture.

WHITE

No. 25 MINARET

This fine white combines the close-spaced spike of No. 16 with a larger, longer stem which should make it quite valuable to cut flower growers. Fred Campbell of the Floral Park Greenhouses, Butte, Montana, says of this fine variety: "Late July sowing of No. 25 Minaret flowered for Christmas and early January. Stems 3 ft. long and excellent color. Thanks for sample."

Pacific White. A pure white with large, well spaced florets. Spike is similar to Ball White No. 16, but stems are somewhat longer. A bit later than No. 16 but earlier than Avalanche. Recommended for both greenhouse and outdoor use.

● **No. 16 Ball White—Medium Tall.** This early pure white is the most popular variety on our entire list.

No. 99 Ball White. Averages 4 to 6 inches taller than No. 16.

White Giant. Good long-stemmed white for outdoor growing. We prefer our No. 16 Ball White for greenhouse use, although some growers have reported favorably on White Giant for this purpose.

Gardenia, Imp. Pure white. Branches somewhat. A fine outdoor strain.

No. 5. Ball Dwarf White. An ideal pot plant variety.

Avalanche. Finest white for outdoor growing; also excellent for greenhouse use although later than No. 16.

LAVENDER, BLUE and PURPLE

● **No. 1 Lilac-Lavender Improved.** Early blooming. Silvery lilac. Good stems with long flower spikes.

No. 3 Ball Blue Improved. Deep bluish lavender; long spikes.

● **No. 21 Purple Heart.** Long-stemmed and large-flowered, bright violet-purple. Early blooming.

PRICES all Column Stocks, each; ½ tr. pkt., **75c**; tr. pkt., **\$1.25**; ¼ oz., **\$2.75**; ½ oz., **\$5.25**; 1 oz., **\$10.00**.
COLLECTION: 1 tr. pkt. each of the 6 Best, (dotted) varieties, for **\$6.75**.

Winter Sweet Peas

350 seeds per oz.

ZVOLANEK'S MULTIFLORAS

Originator's Seed

These fine varieties are the result of years of painstaking selection on the part of William Zvolanek, veteran California Sweet Pea breeder. They are unusually free flowering and **long-stemmed** with many stems carrying **5 and 6 flowers** instead of the usual 3 and 4. Not hard to visualize what this means to growers in better market returns over a period of a few weeks of picking.

Blue Wonder. Fine, clear medium blue flowers on very long, strong stems.

Deep Rose. Deep, bright rose; fine for spring. Long stems, and vigorous.

● GEO. J. BALL

Named for the late Geo. J. Ball, this new, deep coral-rose is one of the finest Multiflora Sweet Peas.

Giant Lilac. Bright mauve, same color as Triumph. Large flowers on extra long, heavy stems. Strong growth.

● **Lavender.** Orchid-lavender, near Twilight in color. A strong grower with extra long stems.

Light Rose-Pink. Almost flesh-pink in color. Large flowers on long stems.

Orange-Cerise. Extra large flowers on long stems. A bright and striking color.

Red. Christmas red.

● **Rose.** Extra large, medium rose flowers on extra long, heavy stems. Vigorous.

● **Salmon-Pink.** Large, medium rose-pink flowers with salmon cast. Stems are extra long, but not as heavy as the other varieties in this class.

Whirlwind. Large, light rose flowers on long stems.

● **White.** Pure white. Long, strong stems.

Multiflora Mix. A complete color assortment.

Prices above 13 varieties, each: ½ oz., \$1.10; 1 oz., \$2.00; 4 ozs., \$6.65; 1 lb., \$20.00.

STANDARD WINTER VARIETIES

While we prefer the Spring Flowering for late greenhouse planting, the Winter class does flower earlier and in some sections is preferred even for outdoor planting. The 12 best varieties are indicated by a (●).

WHITE

Ball White. Long stemmed pure white; white-seeded.

● **Cascade.** Large flowered. Earliest white. White seeded.

Hope. Fine black seeded white.

White Harmony. Similar to Hope; black seeded.

LAVENDER, BLUE and PURPLE

Bacchus. Deep maroon; large flowered.

● **Ball Blue Supreme.** Rich mid-blue. Large flowers and a good producer.

Harmony. Early flowering lavender.

Michigan. Clear lavender.

● **Rhapsody.** Extra large flowered, deep rosy lavender.

Top Hat. Deep bright violet-blue.

● **Triumph.** Long-stemmed, rich lilac-mauve; very well liked.

● **Twilight.** A bright clear lavender.

PINK, ROSE and SALMON

● **Ball Rose Queen.** Extra long-stemmed and large-flowered clear rose-pink. One of the finest winter varieties.

● **Ball Rose Supreme.** Large wavy flowers of bright silvery rose. Good stems and free flowering.

● **Ball Salmon.** Fairly deep salmon-pink; an excellent producer.

Daphne. Soft salmon-pink on cream. Large flowered.

● **Hiawatha.** Strong growing, large flowered deep rose.

Laddie Imp. Long stemmed, fairly light rose-pink.

Mother Machree. Large coral-rose flowers; semi-duplexed.

New Ball Rose. Free flowering, bright rose.

ORANGE and RED

● **Ball Orange Supreme.** Bright, clear orange with no rose shading.

● **Fiesta.** Brilliant scarlet-cerise; the finest winter red.

Sparks. The finest poppy-scarlet.

● **Treasure Island.** Large, wavy flowers of golden orange.

Prices all above standard winter varieties, each: ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

MIXTURES

● **12 Best Mixture.** Our own formula mixture of the 12 best. ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

Ball Early Mixture. Carefully balanced mixture of winter varieties. ½ oz., 30c; 1 oz., 50c; 4 ozs., \$1.50; 1 lb., \$5.50.

COLLECTIONS

½ oz. each of the above "12 Best" (dotted) named standard winter varieties for \$3.80.

1 oz. each of the above "12 Best" (dotted) named standard winter varieties for \$6.10.

Spring Peas

CUTHBERTSON STRAIN

This class is midway in blooming date between the Winter and Summer types, and is the preferred kind for spring greenhouse flowering. Don't sow before October for this purpose. They are also widely planted for outdoor use, being a week or two earlier than the Summer class.

● **Billy.** Cerise-rose.

● **Carol.** Clear pink.

Doris. Cherry-rose.

Evelyn. Salmon-pink.

● **Lois.** Light pink.

Coline. Vivid scarlet.

● **Jimmy.** Deep cherry-red.

● **Frank G.** Rosy lavender.

Jessie. Lavender-mauve.

● **Tommy.** Mid-blue.

● **Janet.** White.

● **Mixture.**

Prices above 12 Cuthbertson varieties, each: ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$5.00.

FLORIBUNDAS

Spring Flowering Originator's Seed

Developed from the sensational Multifloras (longer, stronger stems with as many as 6 and 7 blooms), the Floribunda Class is a spring flowering Sweet Pea. Don't sow before October for this purpose. It branches freely with long, strong stems, as many as 6 and 7 blooms, and has other fine characteristics of the Multiflora line.

Our last season's trials definitely indicate that the Floribundas are superior to other strains for spring greenhouse or outdoor use in our locality.

Pure white (New)	Lavender	Scarlet
Purple	Rose-Pink	Mixture
Lilac	Light Pink	
Carmine-Rose	Mid-Blue	

Prices above 10, each: ½ oz., \$1.10; 1 oz., \$2.00; 4 ozs., \$6.65; 1 lb., \$20.00.

PERENNIALS



**AQUILEGIA,
McKANA'S GIANT**
One of last year's All-America award winners. The first perennial to be so honored in 18 years.

A sowing of hardy perennials made this summer will flower freely next year with a minimum of care. See our spring catalog for a more complete description of the following:

ACHILLEA—● *Filipendula, Parker's Variety* (Cloth of Gold). 225,000 S. Large heads of golden yellow flowers; long stems.

● *The Pearl* (Ptarmica). 170,000 S. 30 in. The standard double white for cutting.

Prices above 2, each: tr. pkt., 30c; 1/8 oz., 70c; 1/4 oz., \$1.25.

ACONITUM (Monkshood)—*Napellus*. 10,000 S. Dark blue; does best in partial shade. Tr. pkt., 30c; 1/4 oz., 80c.

ALSTROEMERIA (Lily of Peru)—*Chilensis*. 1,600 S. Shades of pink, rose and red. Medium tall. For bedding and cut flower use. Germination erratic. Tr. pkt., 55c; 1/4 oz., \$1.65; 1 oz., \$5.00.

ALYSSUM—● *Saxatile Compactum* (Gold Dust). 30,000 S. 12 in. Rich golden yellow.

Tr. pkt., 20c; 1/4 oz., 40c; 1 oz., \$1.20.

Saxatile Silver Queen (Sulphureum). Light lemon-yellow. Tr. pkt., 30c; 1/4 oz., \$1.00; 1 oz., \$3.00.

ANCHUSA—*Dropmore Strain* (Italica). 1,100 S. 5 ft. Nice blue for cutting. Tr. pkt., 20c; 1/4 oz., 60c; 1 oz., \$1.80.

Myosotidiflora. 10,500 S. 12 in. May flowering Forget-me-not blue. Tr. pkt., 60c; 1/8 oz., \$1.35; 1/4 oz., \$2.50; 1 oz., \$8.50.

ANEMONE—*St. Brigid Mixed*. 37,000 S. Choice long stemmed mixture of brilliant colors.

Tr. pkt., 55c; 1/4 oz., \$1.10; 1 oz., \$3.25.

Pulsatilla (European Pasque Flower). Beautiful violet-purple flowers on 12-inch plants which are covered with silky hairs. Blooms in April-May; likes a dry location.

Tr. pkt., 40c; 1/8 oz., 70c; 1/4 oz., \$1.20.

ANTHEMIS—*Kelwayi* (Hardy Marguerite). 85,000 S. 3 ft. Yellow Daisy flowers produced throughout summer.

Tr. pkt., 20c; 1 oz., 70c.

AQUILEGIA (Columbine)—*Coerulea* (Rocky Mountain Columbine). 18 in. Sky-blue; white corolla.

● *Mrs. Scott Elliott's Mixture*. 2 ft. An excellent and popular long-spurred mixture.

Rose Queen. 18 in. Rose with white corolla.

Snow Queen. 2 ft. Creamy white flowers.

Above 4, each: tr. pkt., 40c; 1/4 oz., \$1.10; 1 oz., \$3.25.

AQUILEGIA, Continued

Copper Queen. 2 ft. Copper-red shades with straw-yellow corolla. Tr. pkt., 55c; 1/8 oz., \$1.65; 1/4 oz., \$3.00.

Crimson Star Hybrids. 18 in. About 90% dark red with white corolla. Tr. pkt., 60c; 1/8 oz., \$1.75; 1/4 oz., \$3.00.

Longissima Yellow. 2 ft. Delicate, pale yellow with extra long (4 in.) spurs. Tr. pkt., 60c; 1/16 oz., \$2.50; 1/8 oz., \$4.75.

Longissima Mixed. 2 ft. A variety of attractive shades in this extra long-spurred class. Tr. pkt., 60c; 1/16 oz., \$2.00.

Mrs. Nicholls. 2 ft. Large-flowered, clear deep blue.

Tr. pkt., 50c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$9.00.

● *Long Spurred Mixture*. A well balanced blend with large flowers and long spurs. Based on our trial ground observation, this is the preferred mixture.

Tr. pkt., 40c; 1/8 oz., \$1.20; 1/4 oz., \$2.00; 1 oz., \$6.00.

McKANA'S GIANT

ALL-AMERICA SELECTION Large, extra long-spurred flowers 3 to 4 inches across in a gay mixture of colors. One of the showiest of all Columbines.

1/16 oz., \$1.50; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$16.00.

ARABIS (Rock Cress)—● *Alpina, Snowcap*. 150,000 S. 6 in. Shining snow-white. Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.75.

Alpina White. 12 in. White.

Tr. pkt., 25c; 1/4 oz., 55c; 1 oz., \$1.80.

Spring Charm (Blepharophylla). Carmine. Semi-hardy. This variety should be wintered over in frames. Will bloom in April-May. Tr. pkt., 50c.

Alpina Pink. (New). 12 in. Delicate, pale pink.

Tr. pkt., 45c; 1/4 oz., \$1.30; 1 oz., \$3.90.

ARMERIA (Thrift)—*Alpina*. 32,000 S. Dwarf, bright rose. Tr. pkt., 75c; 1/16 oz., \$2.75.

Formosa, Large-Flowered Hybrids. 12,000 S. 2 ft.

Tr. pkt., 40c; 1/8 oz., 75c; 1/4 oz., \$1.40; 1 oz., \$4.25.

Maritima Splendens (Statice Armeria). 17,500 S. 12 in. Lilac-rose. Graceful evergreen foliage. Tr. pkt., 60c; 1/8 oz., \$1.50.

GLORY OF HOLLAND

Ball-shaped deep pink flowers about 1 1/2 inches in diameter, carried on straight, wiry stems 2 feet long. Fine for cutting and blooms throughout the summer.

Tr. pkt., 60c; 1/8 oz., \$2.00.

ARTEMISIA—*Silver Plume* (Lactiflora). 650,000 S. Silvery foliage; creamy blooms. For cutting.

Tr. pkt., 40c; 1/16 oz., 75c; 1/4 oz., \$2.25.

ASCLEPIAS—*Tuberosa*. 4,500 S. Fine orange for cutting. Tr. pkt., 35c; 1/4 oz., \$1.30; 1 oz., \$3.90.

ASPARAGUS—*Willow Spray* (Verticillatus). 600 S. Completely hardy, summer green material. Finely cut foliage. Requires 3 years for best results.

Tr. pkt., 55c; 1/2 oz., \$1.35; 1 oz., \$2.50.

ASTER—*Hardy Large-Flowered Mixture*. 17,500 S. 4 ft. Attractive assortment. Tr. pkt., 55c; 1/8 oz., \$1.25; 1/4 oz., \$2.25.

Alpinus, Finest Mixed. 22,000 S. About 15 in. tall. Lavender, blue and white flowers. Tr. pkt., 55c; 1/8 oz., \$1.10.

AUBRIETIA—*Large-Flowered Hybrids* (Monarch strain). 150,000 S. 6 in. Low growing mat-like plants; similar to Arabis but with flowers in a wide range of colors from lilac to purple.

Hendersoni. Deep purple.

Leichtlini. Carmine-rose.

Prices above 3, each: tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

BAPTISIA—*Australis* (False Indigo). 1,700 S. 3 ft. Sprays of pea-shaped indigo-blue flowers. Tr. pkt., 35c; 1 oz., \$1.50.

PERENNIALS, Continued

BELLIS—PERENNIS (Monstrosa). 135,000 S. Popular Double English Daisy.

Red **Rose** **Salmon** (New) **White**
Above 4, each: tr. pkt., 60c; 1/8 oz., \$2.00; 1/4 oz., \$3.75.

Mixture. Tr. pkt., 60c; 1/8 oz., \$1.80; 1/4 oz., \$3.30.

BROOM—Hybrids Mixed. 5,500 S. 4 to 5 ft. Vigorous shrubs; bright color range. Tr. pkt., 50c; 1/8 oz., \$1.25; 1/4 oz., \$2.35.

CAMPANULA—CARPATICA. 350,000 S. 12 in. Dwarf perennial.

Blue. Tr. pkt., 30c; 1/8 oz., 80c; 1/4 oz., \$1.45.

● **Cullinmore Mixture.** Contains many new colors in this dwarf class. Tr. pkt., 60c; 1/8 oz., \$1.50; 1/4 oz., \$2.80.

Rock Garden Blend. Desirable, low-growing kinds in a wide range of Campanula colors. Tr. pkt., 75c.

MEDIUM CALYCANTHEMA (Cup-and-Saucer type). 120,000 S. 3 ft. Biennial.

Dark Blue **Light Blue** **Rose** **White** **Mixture**
Above 5, each: tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

MEDIUM SINGLE (Canterbury Bells). 135,000 S. 3 ft.

Dark Blue **Light Blue** **Pink** **White** **Mixture**
Above 5, each: tr. pkt., 20c; 1/4 oz., 30c; 1 oz., 90c.

MEDIUM DOUBLE (Canterbury Bells). 102,000 S.

Formula Mixed. Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.40.

PERSICIFOLIA. 340,000 S. 30 in.

Telham Beauty. China-blue. 30 in.

Tr. pkt., 40c; 1/8 oz., \$1.00; 1/4 oz., \$1.85.

CARNATION—GRENADIN (Hardy Carnation). 14,000 S. 20 in.

King of the Blacks. Darkest red.

Golden Sun ● **Pink** ● **Red** **White** ● **Mixture**
Above 6, each: tr. pkt., 60c; 1/4 oz., \$2.00; 1 oz., \$6.50.



**CARNATION,
GRENADIN
MIXTURE**

CATANANCHE—Coerulea. 16,000 S. 24 in. Everlasting light lavender-blue flowers. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

CENTAUREA—Montana. 1,600 S. 24 in. Large Cornflower-blue flowers. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

CERASTIUM—Tomentosum (Snow-in-Summer). 42,000 S. 10 to 12 in. An excellent dwarf bedding perennial with silvery foliage and small white flowers.
Tr. pkt., 30c; 1/4 oz., 60c; 1 oz., \$1.80.

CHEIRANTHUS (Siberian Wallflower). 19,000 S.

● **Golden Bedder.** 18 in. Large, deep golden yellow. Tr. pkt., 20c; 1/4 oz., 40c; 1 oz., \$1.20.

Orange Queen. 18 in. Free-flowering, brilliant orange. Tr. pkt., 20c; 1 oz., 50c; 4 ozs., \$1.50.

CHRYSANTHEMUM—Korean Hybrids. 60,000 S. Single and semi-double types in a good color range. Some bloom rather late for localities with early frost dates. Tr. pkt., \$1.00; 1/8 oz., \$2.50; 1/4 oz., \$4.50.

● GLORY MIXTURE

60,000 S. Our finest mixture of hardy Chrysanthemums with an exceedingly wide range of brilliant colors. Contains Korean and Arcticum Hybrids, Azaleamums, Indicum and Morifoliums. Tr. pkt., \$1.00; 1/8 oz., \$2.50; 1/4 oz., \$4.50.

CLEMATIS—Paniculata. 4,500 S. White-flowered climber.
Recta Mandschurica. 7,500 S. Panicles of fragrant white flowers on 4 to 5-ft. plants.

Prices above 2, each: tr. pkt., 75c; 1/8 oz., \$1.50; 1/4 oz., \$2.75.

COREOPSIS—● **Sunburst.** 11,000 S. 24 in. A fine semi-double strain, with 2-inch golden yellow flowers.
Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.10.

CYCLAMEN.

NEAPOLITANUM PERENNIAL MIXED

Shades of rose and white flowers about 1/3 the size of annual Cyclamen. Free flowering on 8-10-inch stems, in August and September. For best results sow early fall and carry seedlings through the first winter under glass, transplanting out to partially shaded area in spring.
100 seeds, \$1.00; 500 seeds, \$3.00.

DAISY (Chrysanthemum Maximum).

Double Fringed (Diener's). 24,000 S. A specially reselected strain. Tr. pkt., 60c; 1/16 oz., \$1.35; 1/4 oz., \$4.25.

● G. MARCONI

18,000 S. The largest flowered and finest double Shasta Daisy strain. Long-stemmed.
Tr. pkt., 60c; 1/8 oz., \$1.65; 1/4 oz., \$3.00.

June Marguerite. 40,000 S.

Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

Mayfield Giant. 21,000 S. Quite large flowered; end of June.

● **Alaska.** 21,000 S. The standard Shasta Daisy; July.

Conqueror. 21,000 S. Giant late white; late July.

Prices above 3, each: tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

DELPHINIUM—See page 19.

DIANTHUS—Allwoodi Alpinus Mixed. 28,000 S. 8 to 10 in. Single flowers in shades of pink.

Tr. pkt., 35c; 1/8 oz., \$1.00; 1/4 oz., \$1.75.

Deltoides Erecta. 6 in. A dwarf rose "Maiden Pink."

Tr. pkt., 35c; 1/8 oz., \$1.00; 1/4 oz., \$1.75.

Latifolius Atrococcineus. 38,000 S. 12 to 15 in. Miniature rose-like crimson flowers.

Tr. pkt., 35c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$5.25.

Loveliness. 15 in. Large, fringed and curled pastel and white flowers. Quite fragrant. *Originator's seed.*

Tr. pkt., 50c; 1/16 oz., \$1.50; 1/4 oz., \$4.50.

Winteri. 16,400 S. Large single flowers in a mixture of pure colors. Long blooming period.

Tr. pkt., 60c; 1/8 oz., \$1.50; 1/2 oz., \$5.00.

PLUMARIUS (Clove Pink). **Cyclops.** Rose and pink with crimson ring. Tr. pkt., 40c; 1/4 oz., \$1.10.

Double Mixture (Scoticus Florist Strain). Various shades of pink, rose, and white; some self colors, others with bright crimson zone. 1 1/2-in. flowers on 12-15 in. stems.

Tr. pkt., 35c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$5.25.

Single Mixture. 20 in. Free flowering, sweet scented, pinks and white. Spreading. Tr. pkt., 20c; 1/4 oz., 40c; 1 oz., \$1.45.

SEE PAGE 16 FOR DIANTHUS BARBATUS

PERENNIALS, Continued

DIANTHUS—Continued

- BARBATUS** (Sweet William). Early June flowering. 24 in.
Holborn Glory. Striking combination of crimson with white.
- **Newport Salmon** (Pink Beauty). Salmon-rose shade.
 - Purple Beauty**. A rich deep color.
 - Scarlet Beauty**. Well named, intense scarlet-red.
 - Giant White**. Ours is an extra large-flowered strain.
 - Single Mixture** ● **Double Mixture**
 - **Auricula**. Choice single mixture with very large flowers showing a clearly defined eye.
 - Prices above 8, each: tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.60.
 - **Single Midget Mixed**. A very fine rock plant. 4 to 6 in. Tr. pkt., 60c; ¼ oz., \$1.50; 1 oz., \$4.75.
 - Double Midget Crimson**. A separate color selected from the popular Double Midget Mixed. True to type. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.
 - **Double Midget Mixed**. Tr. pkt., 40c; ¼ oz., 90c; 1 oz., \$3.00.

- DICENTRA—Spectabilis** (Bleeding Heart). Rosy red flowers. Tr. pkt., \$1.50; ½ oz., \$2.20; ¼ oz., \$4.00.
Eximia (Plumy Bleeding Heart). Dwarf, 12 in. Rose-pink. Tr. pkt., 40c; ¼ oz., \$1.10.

- DICTAMNUS—Fraxinella** (Gas Plant). 1,700 S. Pink with dark veins. Tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.85.

- DIGITALIS—GLOXINOIDES** (Foxglove). 180,000 S.
Purple Rose White Giant Shirley Mixture
Prices above 4, each: tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.15.

- DORONICUM—Caucasicum Magnificum**. 18,000 S. 2 ft. Large yellow Gerbera-like flowers with long stems. Keeps well when cut. Tr. pkt., \$1.00; ½ oz., \$2.25.

- ECHINOPS—Ritro** (Globe Thistle). 688 heads to oz. Blue flower heads 1½ to 2 inches in diameter on 2-3 ft. plants. Tr. pkt., 40c; ¼ oz., \$1.10; 1 oz., \$3.25.

- EDELWEISS**. See *Leontopodium*, page 17.

- EREMURUS—Robustus** (Foxtail Lily). 8 ft. Huge 3-ft. spikes of bright rose-pink. Blooms in 3 years from seed. Tr. pkt., \$1.00; ¼ oz., \$3.50.

- EUPHORBIA—Corollata** (Wild Baby's Breathe). 8,700 S. 24 in. Small Gypsophila-like white flowers. Tr. pkt., 40c; ½ oz., \$1.25; ¼ oz., \$2.25.

- Myrsinites**. 2500 S. Attractive succulent-like silvery green foliage. Each branch produces a brilliant yellow bract of leaves in May. 6-8 in. tall. Tr. pkt., 35c; ½ oz., \$1.00.

- Polychroma**. 7000 S. 15 to 18 in. Bushy plants with bracts of bright yellow changing to rosy bronze. Tr. pkt., 60c; ¼ oz., \$1.35.

- FEVERFEW**. See *Matricaria*, page 17.

- GAILLARDIA—GRANDIFLORA**. 9,500 S. ● **Dazzler**. The standard fine cutting strain. Golden yellow with maroon center.

- **Monarch Strain**. A very superior mixture.
Prices above 2, each: tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.85.

- **Burgundy**. Wine-red. Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.35.
Portola Hybrids Mixed. Large maroon-red flowers tipped with yellow. Tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.40.

- Goblin**. Compact plants; red and yellow bicolored flowers. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.35.

- GEUM**—7,000 S. **Lady Stratheden**. 24 in. Double golden yellow. **Mrs. Bradshaw**. 24 in. Double glowing red.

- Prices above 2, each: tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

- GILIA—Coronopifolia** (Standing Cypress). 18,000 S. Heads of scarlet flowers on 5-ft. plants. Tr. pkt., 30c; ½ oz., 65c; ¼ oz., \$1.10; 1 oz., \$3.30.

- GYPSOPHILA**—● **Pacifica**. 34,000 S. 42 in. Starry pink flowers in September and October.

- Tr. pkt., 30c; ¼ oz., \$1.25; 1 oz., \$3.75.

- Oldhamiana**. Feathery light pink. Oct. flowering; watch frost dates. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

- PANICULATA**. ● **Double Snow Flake**. 40 in. About 50% are double flowering. Tr. pkt., 40c; ¼ oz., \$1.40; 1 oz., \$4.75.

- Single White**. 40 in. Tr. pkt., 25c; 1 oz., \$1.00; 4 ozs., \$3.00.

- REPENS**. Rose. 6 in. Tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.50.

- HELIANTHEMUM—Mutabile** (Sun Rose). 15,000 S. 8 to 10 in. Attractive dwarf rock plant.

- Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.40.

- HELLEBORUS—Niger** (Christmas Rose). 3,600 S. Attractive 2½-in. white flowers; basal foliage. Seed should be frozen before sowing, or sown outdoors in fall for best results.

- Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.80.

- Choice Mixed**. (Hybrids.)

- Tr. pkt., 60c; ¼ oz., \$1.20; 1 oz., \$3.60.

- HESPERIS—MATRONALIS** (Sweet Rocket). 15,000 S. Sweet scented flowers on 3-ft. plants.

- Violet** **White**
Prices above 2, each: tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

- HEUCHERA—SANGUINEA** (Coral Bells). 750,000 S. 24 in. **Splendens**. Crimson.

- Hybrida Mixed**. Shades of red through rose and white.

- Above 2, each: tr. pkt., 60c; ¼ oz., \$1.75; ½ oz., \$3.25.

- HIBISCUS—Mallow Marvels Mixed**. 7,000 S. Ours is an extra large-flowered strain. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.80.

- **Avalon**. 5 ft. This is an exceptional mixture of genuine F₂ Hybrids with colors ranging from blush-pink to bright red. The blooming period (early July to late September) is much longer and the flowers larger than the regular Mallow Marvels. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

- HOLLYHOCK—Imperator Improved**. 2,700 S. Choice double-crested mixture. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.00.

- **Triumph**. Double-fringed flowers in delicate art shades.

- Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.80.

- CHATER'S DOUBLE**. 3,100 S. The standard double Hollyhock.

- Chamois** **Sulphur-Yellow** **Newport Pink**
Scarlet **Lilac Beauty** **Black**. Deep maroon.
Deep Rose **White** **Mixture**

- Above 9, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00.

- IBERIS—Gibraltarica** (Hardy Candytuft). 11,500 S. 12 in. Large flowered lilac. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

- Sempervirens**. 12 in. White flowers in late May. Seedlings flower second season. Tr. pkt., 55c; ¼ oz., \$1.35; 1 oz., \$4.75.

- Jucunda**. 4 in. Pink flowers.

- Tr. pkt., 50c; ¼ oz., \$1.50; ¼ oz., \$5.40.

- INCARVILLEA—Grandiflora Brevipes**. 6,000 S. Brilliant dark rose.

- Delavayi**. 24 in. Large, Gloxinia-like, rosy purple flowers.

- Prices above 2, each: tr. pkt., 60c; ¼ oz., \$1.20.

- IRIS—Dichotoma** (Vesper Iris). 7,000 S. Assorted colors; fragrant. Tr. pkt., 35c; ¼ oz., 70c; 1 oz., \$2.10.

- Kaempferi**. A wide variety of colors; many doubles. Tr. pkt., 40c; ¼ oz., 75c; 1 oz., \$2.35.

- LATHYRUS—LATIFOLIUS** (Hardy or Everlasting Sweet Pea). 500 S.

- Pink Beauty** **White Pearl** **Red** **Mixture**

- Prices above 4, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$1.90.

- LAVANDULA**—● **Munstead Strain**. 32,000 S. 12 in. Freely produces large, sweet-scented flowers.

- Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.

PERENNIALS, Continued

LEONTOPODIUM—**Alpinum** (Edelweiss). 275,000 S. Small greenish white flowers.
Tr. pkt., 60c; 1/16 oz., \$1.10; 1/8 oz., \$2.00.

LIATRIS (Gayfeather)—●**Pycnostachya**. 9,500 S. Long-spiked purple. Finest cut flower kind.

Scariosa Purple

Scariosa White

Above 3, each: tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

●**September Glory**. Tall growing with purple spikes.
Tr. pkt., 60c; 1/4 oz., \$2.00; 1 oz., \$6.00.

LILIES—●**White Queen**. 8,200 S. Finest white seed-propagated Lily.

1/2 tr. pkt., 75c; tr. pkt., \$1.25; 1/8 oz., \$2.75; 1/4 oz., \$5.00.

Candidum (Madonna Lily). Tall pure white.

Tr. pkt., \$1.25; 1/8 oz., \$2.75; 1/4 oz., \$5.25; 1 oz., \$16.50.

Formosanum Giant Flowered. 8200 S. White.

Tr. pkt., 60c; 1/4 oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$13.00.

Henryi. Orange, spotted brown.

Tr. pkt., \$1.00; 1/4 oz., \$3.00; 1 oz., \$9.00.

Regale (Regal Lily). 6500 S. The large, showy flowers are pure white inside with yellow base; reverse of petals is tinged with pink. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$1.50; 4 ozs., \$5.00.

Tenuifolium (Coral Lily). Medium sized flowers of brilliant coral-red. Tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$4.50.

LINUM—**Perenne** (Perennial Flax). 8,500 S. Blue.

Tr. pkt., 20c; 1 oz., 60c.

Flavum Compactum. 8 in. Golden yellow flowers with dark green foliage. Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.50.

Collinum. Dwarf growing, bright blue.

Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.50.

LOBELIA—**Cardinalis** (Cardinal Flower). 725,000 S. 36 in. Bright cardinal-red. Tr. pkt., 40c; 1/8 oz., 90c; 1/2 oz., \$2.70.

LUNARIA—**BIENNIS** (Honesty or Money Plant). 1,500 S. **White** **Mixture**

Prices above 2, each: tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.40.

LUPINE—**POLYPHYLLUS** (Hardy Lupine).

●**RUSSELL STRAIN**

1,000 S. Long, closely set spikes of extra large florets in rich self colors and unusual bicolors. Developed by a famous English specialist.

RESELECTED STOCK (*Originator's packets*). 24 seeds, 40c; 65 seeds, 65c; 150 seeds, \$1.25; 350 seeds, \$2.50.

REGULAR SEED. Tr. pkt., 40c; 1/4 oz., 65c; 1 oz., \$2.10; 4 ozs., \$6.50.

MISCELLANEOUS POLYPHYLLUS VARIETIES. 1450 S.

Dark Blue

Rose

White

Prices above 3, each: tr. pkt., 35c; 1/4 oz., 65c; 1 oz., \$2.00.

●**Harkness Regal Mixture**. The standard fine hybrid mixture. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.10.

LYCHNIS—●**Chalcedonica** (Maltese Cross). 64,000 S. 36 in. Scarlet. Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.40.

Rose. 5 in. Brilliant rose, for rock gardens.

Tr. pkt., 50c; 1/8 oz., \$1.50.

Forrestii. 15 in. Mixture of rose, lilac, white and red. Excellent cut flower and bedding plant.

Tr. pkt., 35c; 1/4 oz., 80c; 1 oz., \$2.40.

MATRICARIA (Feverfew)—**CAPENSIS**. 145,000 S. 18 in. grown outside; 3 to 5 ft. when grown in greenhouse. Sowings made during January will provide a welcome cut the same summer.

●**BALL DOUBLE WHITE IMPROVED**

This strain has been carefully reselected for fully double flowers, and our own trials show it to be well over 90% true, double, imbricated blooms. Nearly all of the single and anemone types have been removed. Tr. pkt., \$1.00; 1/16 oz., \$2.00; 1/4 oz., \$6.00; 1 oz., \$18.00.



ALL DOUBLE MATRICARIA

MATRICARIA, Continued

Double White, Regular. A regular strain of double and semi-double Matricaria with some showing yellow centers.

Tr. pkt., 40c; 1/8 oz., \$1.10; 1/4 oz., \$2.00; 1 oz., \$6.00.

ALL-DOUBLE DWARF. 8-10 in. For pots or borders.

●**Golden Nuggets**. Tr. pkt., 35c; 1/16 oz., 60c; 1/4 oz., \$2.00.

●**Snow Puffs**. Tr. pkt., 35c; 1/16 oz., 60c; 1/4 oz., \$2.00.

MYOSOTIS (Forget-me-not)—●**Blue Bird** (Oblongata). 31,500 S. 12 in. Standard blue for spring greenhouse flowering. Tr. pkt., 40c; 1/4 oz., 90c; 1 oz., \$3.25.

Palustris Semperflorens. 47,500 S. Dwarf blue. 12 in. Flowers from early spring until autumn.

Tr. pkt., 40c; 1/4 oz., 90c; 1 oz., \$3.25.

VICTORIA. 42,000 S. A dwarf, compact strain. 6 to 8 in.

Dark Blue **Rose** **White** **Dwarf Mixed**

Prices above 4, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.65; 1 oz., \$4.90.

ALPESTRIS. Blue Eyes. 42,500 S. Early flowering bright blue with white eyes. Tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$4.75.

●**Royal Blue** (Indigo Blue). 12 in. Deep rich blue. Tr. pkt., 40c; 1/4 oz., 85c; 1 oz., \$3.00.

NEPETA—**Mussini** (June-flowering Catnip). 52,000 S. 12 in. Aromatic foliage and light blue flowers.

Tr. pkt., 30c; 1/4 oz., 90c; 1 oz., \$2.70.

OENOTHERA—**Youngi** (Sundrop). 350,000 S. 18 in. Large yellow blooms. Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.00.

Missouriensis. 12 in. Large flowered yellow.

Tr. pkt., 30c; 1/4 oz., \$1.20.

PENTSTEMON—**Avalon Hybrids**. 15,000 S. 3 ft. Spikes of fine large flowers in an extremely wide and unusual range of colors. The result of crossing 2 distinct species. Tr. pkt., 40c; 1/8 oz., 80c; 1/4 oz., \$1.50.

PEONY—**Garden Varieties Mixed**. Both double and single types are represented in this assortment of colors. Blooms in 3 years from seed. 100 seeds, \$2.50.

PHLOX—**Decussata Mixture**. 2,500 S. 3 ft. Large brilliantly colored types. Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.50.

Beltsville Beauty. A greatly improved perennial Phlox. Large flowered, and a wide assortment of colors.

Tr. pkt., 85c; 1/4 oz., \$2.50; 1 oz., \$7.50.

PHYSALIS—**Francheti** (Chinese Lantern Plant). 18,000 S. Giant orange-scarlet pods.

Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.50.

PERENNIALS, Continued

PLATYCODON—GRANDIFLORUM (Balloon Flower). 28,000 S. 24 in.

White	Shell-Pink	Blue
Prices above 3, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.60.		
MARIESI Dwarf Blue . 16 in. Dwarf White . 16 in.		
Prices above 2, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.60.		

POPPY—ORIENTALE (Oriental Poppy). 140,000 S. **Beauty of Livermore**. Dark oxblood-red. Tr. pkt., 35c; 1/4 oz., \$1.25. **Brilliant**. Fiery red. Tr. pkt., 35c; 1/8 oz., \$1.00; 1/4 oz., \$1.75. **Princess Victoria Louise**. The standard light orange. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.75. **Salmon Shades**. Tr. pkt., 40c; 1/8 oz., \$1.10; 1/4 oz., \$1.85. **Mixture**. Tr. pkt., 40c; 1/4 oz., \$1.25; 1 oz., \$4.25.

PRIMULA—VERIS. ● **Colossea**. 33,000 S. Unusual colors. Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00. **Giant Munstead Strain**. Shades of yellow. Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00. ● **Polyanthus Mixture**. (Unwin's strain.) 12 in. Tr. pkt., \$1.00; 1/8 oz., \$2.25; 1/4 oz., \$4.25; 1 oz., \$12.50. ● **Giant Monarch Strain**. A fine large-flowered mixture. Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

MISCELLANEOUS HARDY PRIMULAS

DENTICULATA

Large heads of flowers. Colors vary from white to deep rosy lilac. Tr. pkt., \$1.00; 1/16 oz., \$2.40; 1/4 oz., \$9.00.

Giant Crimson	Giant Yellow	Giant White
Above 3, each: tr. pkt., 80c; 1/16 oz., \$1.85; 1/8 oz., \$3.25.		

Blue Flowered. Tr. pkt., \$1.00; 1/32 oz., \$2.75; 1/16 oz., \$5.25. **Vulgaris** (True Yellow English Primrose). 19,000 S. 6 in. Tr. pkt., 60c; 1/4 oz., \$1.75; 1 oz., \$6.50.

Cashmeriana. Ball-shaped heads of rich purple flowers with yellow centers. Tr. pkt., \$1.00; 1/16 oz., \$2.40; 1/4 oz., \$9.00. **Japonica**. Crimson, rose and pink flowers borne in whorls on 6-9 inch stems. Tr. pkt., 40c; 1/8 oz., \$1.00.

PYRETHRUM—ROSEUM (Painted Daisy). 18,000 S. **Atrosanguineum**. A popular dark crimson strain.

Robinson's Dark Crimson. Giant flowered, dark red.

Rose. Single pink flowers.

White. (New).

● **Robinson's Mixture**. Large single mixture.

Semi-Double Mixture. Large-flowered and free blooming.

Prices above 6, each: tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$4.75.

● **Double Mixture**. The finest double Pyrethrum.

Tr. pkt., 60c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$8.25.

RUDBECKIA—Purpurea (Echinacea). 7,000 S. 4 ft. Reddish purple. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.50.

SALVIA—Patens. 3,800 S. 30 in. Navy blue hardy Salvia. Tr. pkt., 75c; 1/4 oz., \$2.00; 1 oz., \$6.00.

SAPONARIA—Ocyroides. 5,500 S. 12 in. Hardy rock plant. Rose-pink flowers. Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.25.

SCABIOSA—CAUCASICA. 2,400 S. 30 in.

Goldingensis. Large flowered, fine deep lavender.

Tr. pkt., 60c; 1/4 oz., \$1.75; 1 oz., \$5.25.

Perfecta. Improved large flowered form of this lilac-lavender strain. Tr. pkt., 35c; 1/4 oz., 80c; 1 oz., \$2.60.

● **House Hybrids**. Large flowers ranging from white to deep blue. Tr. pkt., 40c; 1/4 oz., \$1.10; 1 oz., \$3.75.

SEDUM—Golden Carpet (Acre). 3 in. A very nice extra dwarf evergreen. Small, light yellow flowers produced in June. Very strong, hardy grower. Tr. pkt. (3,000 seeds or more), 50c.

Rock Garden Blend. Many species with various colors and forms make up this interesting mixture. Tr. pkt. (3,000 seeds or more), 50c.

STATICE—Caspia. 170,000 S. 30 in. Seedlings flower second season. Lilac. Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.75.

● **Dumosa**. 19,000 S. 18 in. Dense clumps of silvery gray flowers. Tr. pkt., 40c; 1/4 oz., \$1.00; 1 oz., \$3.00.

STATICE, Continued

● **Latifolia** (Sea Lavender). 40,000 S. 30 in. Standard blue perennial Statice. Tr. pkt., 30c; 1/4 oz., 65c; 1 oz., \$2.00.

Perezii. 14,000 S. Flowers in large lavender heads first year from seed. Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.25.

STOKESIA—Cyanea (Stokes' Aster). 3,300 S. 16 in. Large blue flowers. Tr. pkt., 35c; 1/4 oz., \$1.00.

THALICTRUM—Dipterocarpum (Meadow Rue). 12,000 S. 3-4 ft. Rosy purple flowers in early June. Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.35.

THERMOPSIS—Caroliniana. 6,500 S. 3-5 ft. Long panicles of yellow pea-shaped flowers. Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.35.

TRITOMA (Red Hot Poker). 20,000 S.

● **Pfitzer's Red**. Large brilliant red.

Mirabilis. Yellow and orange shades.

Prices above 2, each: tr. pkt., 30c; 1/4 oz., 60c; 1 oz., \$2.00.

TROLLIUS—8,000 S. Soak seed in hot water 30 minutes before sowing.

Ledebouri, **Orange** (Globe Flower). The standard variety. 2 ft. tall. Tr. pkt., 60c; 1/16 oz., \$1.25; 1/8 oz., \$2.25.

Europaeus (Golden Ball). Late yellow.

Tr. pkt., 40c; 1/8 oz., \$1.10; 1/4 oz., \$2.00.

Hybrids Mixed. Tr. pkt., 40c; 1/8 oz., \$1.50; 1/4 oz., \$2.70.

VERONICA—Spicata, **Dwarf Mixed** (Speedwell). 250,000 S. Tr. pkt., 35c; 1/4 oz., 90c; 1 oz., \$2.70.

VIOLA—CORNUTA. **Apricot**. 24,000 S. Prefer Chantreyland. Tr. pkt., 55c; 1/8 oz., \$1.15; 1/4 oz., \$2.10; 1 oz., \$6.50.

Arkwright Ruby. Maroon with dark center. Bright color.

Tr. pkt., 60c; 1/8 oz., \$1.60; 1/4 oz., \$2.90; 1 oz., \$9.00.

● **Blue Perfection**. Large flowered clear medium blue.

Tr. pkt., 60c; 1/8 oz., \$1.20; 1/4 oz., \$2.25; 1 oz., \$6.50.

● **Chantreyland**. Extra large flowered true apricot.

Tr. pkt., 60c; 1/8 oz., \$1.15; 1/4 oz., \$2.20; 1 oz., \$6.50.

Firmament. Free blooming, clear sky-blue.

Tr. pkt., 60c; 1/16 oz., \$1.15; 1/8 oz., \$2.20.

Jersey Gem. Deep orchid; large flowered and attractive.

Tr. pkt., 60c; 1/16 oz., \$1.15; 1/8 oz., \$2.25.

King Henry. Rich violet-blue with lavender center and small yellow eye.

Tr. pkt., 60c; 1/8 oz., \$1.15; 1/4 oz., \$2.20; 1 oz., \$6.50.

● **Lutea Splendens**. Clear golden yellow.

Tr. pkt., 60c; 1/4 oz., \$1.60; 1 oz., \$5.25.

Papilio. Blue and white combinations. Extra dwarf and free-flowering. Tr. pkt., 40c; 1/4 oz., \$1.25; 1 oz., \$4.25.

Puck. Yellow and purple.

Tr. pkt., 40c; 1/4 oz., \$1.35; 1 oz., \$4.25.

● **White Perfection**. Small pure white.

Tr. pkt., 40c; 1/4 oz., \$1.35; 1 oz., \$4.25.

Scottish Mixed. Mostly solid colors in shades of white, yellow, blue and purple. Larger blooms than Large Flowered Mixture. Tr. pkt., 40c; 1/16 oz., \$1.15; 1/4 oz., \$3.35; 1 oz., \$10.00.

● **Large-Flowered Mixture**. Mixture of large-flowered varieties. Tr. pkt., 40c; 1/4 oz., \$1.35; 1 oz., \$4.25.

"JUMP-UPS"

Black Imp (Nigra). Small, velvety, coal-black flowers.

Helen Mount. A combination of violet, lavender and canary-yellow.

Prices above 2, each:

Tr. pkt., 60c; 1/8 oz., \$1.35; 1/4 oz., \$2.50.

ODORATA. The popular fragrant "English Violet."

Semperflorens. Deep blue. Tr. pkt., 40c; 1/4 oz., \$1.40.

YUCCA—Hardy Varieties Mixed. 1,800 S. Striking plants of exotic appearance. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

Florists' Delphinium

10,000 seeds per oz. Delphinium should be a substantial part of almost every grower's program. They're invaluable cut flowers and you'll find a ready demand for plants. The remarkable Giant Pacific Hybrids are "tops" almost everywhere.

GIANT PACIFIC STRAINS

Court Series

- **Black Knight.** Deep velvety blue. The darkest of all.
- **Blue Bird.** The clearest of medium blues; white bee.
- **Blue Jay.** A brilliant true medium blue with dark bee.
- **Cameliard.** Lavender and rose with white bee.
- **Galahad.** The finest clear white Delphinium.
- **Guinevere.** Excellent, light pinkish lavender; white bee.
- **King Arthur.** Royal violet with white bee. Exceptional size.
- **Percival.** Large, glistening white flowers with black bee.
- **Summer Skies.** Light blue with contrasting white bee.
- **6 Best Mix.** Formula mixture of the "6 Best" varieties.
- **Round Table.** Contains all above plus many new colors.

Prices of above:

Originator's Seed (Vetterle & Reinelt). An excellent strain of the Giant Pacifics kept uniform and vigorous by the originator.

½ tr. pkt., \$1.25; tr. pkt., \$2.00; ⅛ oz., \$3.00; ¼ oz., \$5.50; 1 oz., \$20.00.

Regular Seed. A satisfactory strain one generation removed from originator's seed. Grown by a reliable seed producer.

Tr. pkt., \$1.50; ⅛ oz., \$2.50; ¼ oz., \$4.50; 1 oz., \$15.50.

ASTOLAT

Pale blush shades with several darker tones including a few raspberry-rose. Dark bees. *Originator's seed.*

½ tr. pkt., \$1.50; tr. pkt., \$2.25; ⅛ oz., \$4.50; ¼ oz., \$8.00.

Giant Pacific Regular Strain

Clear White. A fine clear white, large-flowered.

Blue Shades. Mixture of light, medium and dark blue.

Lavender Pastel Shades. Lavender combinations with dark bees.

Mixture. All colors in this fine type.

Prices above 4, each: tr. pkt., \$1.00; ⅛ oz., \$2.25; ¼ oz., \$4.00; 1 oz., \$13.50.

OTHER VARIETIES

- **Belladonna Imp.** (Cliveden Beauty). Popular light blue. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Belladonna.** Light blue; field grown seed. Tr. pkt., 35c; ¼ oz., 70c; 1 oz., \$2.35; 4 ozs., \$7.85.
- **Bellamosum Improved.** Standard deep blue. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Lamartine.** Deep, bright marine-blue with white eye. Tr. pkt., 55c; ¼ oz., \$1.50; 1 oz., \$5.00.
- **Blackmore and Langdon Hybrids.** Shades of blue with contrasting bees. A fine free-flowering hybrid strain. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Sapphire.** Large flowered bright blue with small golden bee. Petals have a brilliant, glossy sheen. Slightly lighter than Bellamosum. Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.
- **Wrexham or Hollyhock Strain.** Extra large, tapering spikes. Tr. pkt., 55c; ¼ oz., \$1.75; 1 oz., \$6.00.
- **Gold Medal Hybrids.** Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.
- **Cardinale.** 25,000 S. Bright scarlet. Tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.50.
- **Delphinium Chinensis.** See general catalog.



Giant Pacific Delphinium
King Arthur Summer Skies

OUR "6 BEST" GIANT PACIFICS

Galahad Summer Skies Black Knight
Blue Bird King Arthur Guinevere

COLLECTIONS:

Originator's Seed. 1 tr. pkt. each of 6 Best, \$10.80.
Regular Seed. 1 tr. pkt. each of 6 Best, \$8.00.

Northwest Bulbs

DAFFODILS

Washington grown, case lots F.O.B. shipping point.

TRUMPET

	DN No. 1		DN No. 2	
	Per 100	Per 1000	Per 100	Per 1000
KING ALFRED. Golden yellow.				
Jumbo	\$12.00	\$110.00		
DN No. 1	9.50	85.00		
DN No. 2	7.50	60.00		
	DN No. 1		DN No. 2	
	Per 100	Per 1000	Per 100	Per 1000
Golden Harvest. Golden yellow	\$12.50	\$115.00	\$10.50	\$95.00
Rembrandt. Dark golden yellow	11.50	105.00	9.00	80.00
Beersheba. Pure white.	16.50	155.00	13.50	125.00

IRIS

West Coast grown; case lots F.O.B. shipping point nearest you.

	Per 1000	Per 1000	Per 1000
WEDGEWOOD			
8½-9 in.	\$19.00	\$18.50	\$18.00
9-10 in.	33.00	32.00	31.00
10-11 in.	52.50	51.00	49.50
11 in. up	60.00	58.00	56.00

Other Iris

	Moonlight (Yellow)		Pacific Gold	
	White Perfection		White Superior	
				5000
Prices above 5, each:	Per 100	Per 1000	Per 1000	Per 1000
6-7 in.	\$2.50	\$19.00	\$18.00	
7-8 in.	4.00	31.00	29.00	
8-9 in.	6.00	46.00	44.00	
				5000
Imperator. Blue.	Per 100	Per 1000	Per 1000	
6-7 in.	\$2.50	\$16.00	\$15.00	
7-8 in.	3.50	23.50	22.50	
8-9 in.	4.25	31.00	30.00	

CALLAS

August delivery. F.O.B. California or Chicago.

AETHIOPICA (Large White)

	1½-1¾ in.	1¾-2 in.	2-2½ in.	2½ in. up
Per 100	\$ 15.50	\$ 22.00	\$ 28.50	\$ 32.00
Per 1000	145.00	210.00	275.00	300.00

ELLIOTTIANA (Yellow)

November delivery.

	1¾-2 in.	2-2½ in.	2½-3 in.	3 in. up
Per 100	\$11.00	\$ 17.00	\$ 32.00	\$ 45.00
Per 1000	97.50	160.00	300.00	415.00

ANEMONE

September delivery F.O.B. California or Chicago. Minimum order 100.

Monarch de Caen. Single Poppy type mixed.

	¾-7/8 in.	¾-¾ in.	½-¾ in.
Per 100	\$ 6.00	\$ 4.00	\$ 2.00
Per 1000	50.00	30.00	11.00

St. Brigid. Double type mixed.

Rosea (Sylphide). Single fuchsia-rose.

Blue Poppy. Single bright blue.

The Bride. Single pure white.

His Excellency. Single bright scarlet.

Prices above 5, each:

	¾-7/8 in.	¾-¾ in.	½-¾ in.
Per 100	\$ 6.00	\$ 4.50	\$ 2.50
Per 1000	50.00	35.00	14.00

TULIPS

West Coast grown. Case lots F.O.B. shipping point nearest you.

	12/Up		11/12	
	Per 100	Per 1000	Per 100	Per 1000
Albino (Cottage). Pure white..	\$5.50	\$45.00	\$4.75	\$37.50
All Bright (Darwin). Bright red	5.50	45.00	4.75	37.50
Bartigon (Darwin). Crimson-red	5.50	45.00	4.75	37.50
Campfire (Darwin). Blood-red..	5.50	45.00	4.75	37.50
Clara Butt (Darwin). Salmon-pink	5.50	45.00	4.75	37.50
Cordell Hull (Rembrandt). Blood-red on white	5.50	45.00	4.75	37.50
Demeter (Darwin). Reddish purple	6.50	55.00	5.50	45.00
Golden Harvest (Cottage). Golden yellow	5.50	45.00	4.75	37.50
Olaf (Mendel). Scarlet	8.00	67.50	7.00	60.00
Paul Richter (Darwin). Geranium Lake	8.00	67.50	7.00	60.00
Princess Elizabeth (Darwin). Rose	5.50	45.00	4.75	37.50
Red Pitt (Darwin). Bright red..	5.50	45.00	4.75	37.50
Wm. Copeland (Darwin). Lavender	5.50	45.00	4.75	37.50
Wm. Pitt (Darwin). Cochineal-red	5.50	45.00	4.75	37.50

FREESIAS

F.O.B. California or Chicago.

Marie. (Pat. No. 609.) Largest, earliest, and most beautiful white.					
	½-¾ in.	¾-¾ in.	¾ in. up		
Per 100	\$ 3.50	\$ 4.00	\$ 6.00		
Per 1000	23.00	30.00	45.00		
	Rose	Blue	Red	Pink	Orange
		Pure White		Lavender	Mixture
Talisman. (Pat. No. 555.) Early salmon-pink, cream throat.					
Mammoth White. (Gt. Hyb.). Large pure white. Early.					
Mammoth Yellow. (Gt. Hyb.). Giant golden yellow.					
Elder's Golden Giant. (Gt. Hyb.). Tall, bright golden yellow.					
Oriole. (Gt. Hyb.). Fine deep golden orange. Early.					
Prices above 14, each:	½-¾ in.	¾-¾ in.	¾ in. up		
Per 100	\$ 2.50	\$ 3.50	\$ 4.50		
Per 1000	17.00	27.00	38.00		
Rainbow Mixture Freesias. Mixture of all colors.					
	½-¾ in.	¾-¾ in.	¾ in. up		
Per 100	\$ 2.50	\$ 3.50	\$ 4.50		
Per 1000	15.00	25.00	38.00		

Minimum order 100. Best forcing results from Freesias are obtained if shipments are not made from California until August 15 or later.

RANUNCULUS

September to February delivery F.O.B. California or Chicago. Minimum order 100.

TECOLOTE GIANTS

By far the largest and most magnificent strain of Ranunculus ever offered to the trade. Flowers are very double, blended with semi-double. Centers are usually light green.

	1 in. up	¾-1 in.	¾-7/8 in.	¾-¾ in.
Mixed Colors				
Per 100	\$ 8.50	\$ 6.50	\$ 4.50	\$ 3.50
Per 1000	75.00	53.00	35.00	24.00

	Yellow Shades		Red Shades		Rose Shades	
	Pink Shades		Orange Shades		White Shades	
	1 in. up		¾-1 in.		¾-7/8 in.	
Per 100	\$ 9.00		\$ 7.00		\$ 5.00	
Per 1000	80.00		60.00		40.00	

PRICES SUBJECT TO CHANGE

Holland Bulbs

REGULAR HYACINTHS

RED and PINK

Gertrude. Rosy pink, medium forcer.
Marconi. Bright pink, rather late forcer.
Pink Pearl. Rosy pink, very early forcer.
Queen of the Pinks. Bright, beautiful pink, for late forcing.

WHITE

Carnegie. Pure white, late forcing.
L'Innocence. Pure white, very early forcer.

Prices Regular Hyacinths (Minimum order 1 bag):

Size	19/up	18/19	17/18
Packed in units (bag) of	50	50	100
Per 100	\$ 15.00	\$ 13.50	\$ 11.00
Per 1000	140.00	125.00	100.00

BLUE

Bismarck. Light blue, very early forcer.
Delft Blue. Porcelain blue, compact spike.
King of the Blue. Dark blue, late.
Ostara. Violet-blue, medium forcer.

YELLOW

City of Haarlem. Golden yellow, medium forcer.

Size	16/17	15/16	14/15
Packed in units (bag) of	100	175	200
Per 100	\$ 9.50	\$ 8.50	\$ 7.50
Per 1000	85.00	75.00	65.00

PREPARED HYACINTHS

(FOR FORCING)

L'Innocence. Pure glistening white.
Bismarck. Light porcelain-blue.
Pink Pearl. Bright rosy pink.

Prices Prepared Hyacinths:

	1st Size	2nd Size	3rd Size
Per 100	\$15.50	\$14.00	\$11.50
Per 1000	145.00	130.00	105.00

Case lots less 5% F.O.B. shipping point nearest you on orders received at West Chicago by July 1. Less than case lots F.O.B. West Chicago.

FORCING TULIPS

DARWIN

	12/up	11/12
	Per 1000	Per 1000
All Bright. 24 in. Bright red	\$52.00	\$40.00
Aristocrat. 28 in. Soft violet rose	54.00	42.50
Bartigon. 24 in. Clear, crimson-red	45.50	40.00
Bartigon Max. Larger than Bartigon	48.00	40.00
Campfire. 24 in. Blood-red	48.00	40.00
City of Haarlem. 28 in. Scarlet	62.00	54.00
Cordell Hull (Rembrandt). 24 in. Red on white	52.00	40.00
Demeter. 28 in. Reddish purple, early	52.00	42.00
Golden Age. 24 in. Yellow, and salmon-orange	52.00	42.00
Mamasa. 26 in. Bright buttercup-yellow	52.00	42.00
Paul Richter. Geranium-red	52.00	42.00
Philip Snowden. 24 in. Light carmine-rose	44.00	38.00
Pride of Zwanenburg. 28 in. Bright rose	52.00	42.00
Princess Elizabeth. 26 in. Rose	44.00	38.00
Prunus. 24 in. Salmon-pink	45.50	40.00
Red Pitt. 24 in. Bright red	48.50	40.00
Rose Copeland. 24 in. Lilac-rose	44.00	38.00
The Bishop. 28 in. Violet-purple	52.00	42.00
Utopia. 22 in. Cardinal-red	52.00	42.00
Wm. Copeland. 24 in. Lavender	44.00	38.00
Wm. Pitt. 24 in. Brilliant carmine	45.50	38.00
Choice Mixture of Darwin Tulips	44.00	38.00

TRIUMPH

	48.50	42.50
Crater. 16 in. Deep carmine-red	48.50	42.50
Denbola. 16 in. Cerise-red with cream	52.00	42.50
Edith Eddy. 18 in. Carmine-red, edged white	44.00	38.00
Elizabeth Evers. 15 in. Beautiful pink	45.50	40.00
Elmus. 18 in. Cherry-red, white border	52.00	40.00
Korneforos. 20 in. Light red	52.00	40.00
Makassar. Dark canary-yellow	70.00	62.00
Red Giant. 16 in. Soft red	52.00	42.00

COTTAGE

	48.50	42.50
Albino. 20 in. Pure white	48.50	42.50
Carrara. 20 in. White	44.00	38.00
Golden Harvest. 26 in. Lemon-yellow	44.00	38.00
Golden Measure. 26 in. Deep canary-yellow	52.00	40.00
Princess Margaret Rose. 22 in. Yellow, flushed orange-red	44.00	38.00
Smiling Queen. Dark pink, edged silver-pink	52.00	42.00

MENDEL

	42.00	38.00
Athlet. Pure white sport of Weber	42.00	38.00
Fridjof Nansen. 16 in. Carmine-red	52.50	44.00
Her Grace. 18 in. Pink and white	44.00	38.00
Olaf. 14 in. Scarlet	52.00	42.00
Scarlet Admiral. 16 in. Crimson	44.00	38.00
Topscore. 14 in. Geranium-red; yellow base	67.00	59.00

EARLY SINGLE

	60.00	47.00
Brilliant Star. 10 in. Scarlet	60.00	47.00
Couleur de Cardinal. 13 in. Deep scarlet	63.00	49.50
General De Wet. 13 in. Yellow, flushed orange	52.00	44.00
Ibis. 12 in. Deep rose	60.00	47.00
Keizerskroon. 14 in. Yellow, edged red	54.00	47.00
Pink Beauty. 12 in. Deep rose and white	56.00	52.50
Rising Sun. 13 in. Golden yellow	52.00	45.00
Vermilion Brilliant. 10 in. Vermilion-red	62.00	58.00

BOTANICAL (Fosteriana)

	54.00	44.00
Red Emperor. 20 in. Early fiery scarlet	54.00	44.00
All Tulips packed 250 per bag. Minimum order 1000 bulbs, 100 bulbs per variety and size. Case lots F.O.B. shipping point nearest you if orders are received by us by July 1. Less than case lots F.O.B. West Chicago.		

BOXED BULB COLLECTION

Case Lots Only—Each Case Contains:

35 boxes, 12 Mixed Tulips to a box.
 12 boxes, 6 Mixed Hyacinths to a box.
 5 boxes, 6 Mixed Narcissus to a box.
 8 boxes, 24 Mixed Crocus to a box.

60 boxes (collection), \$32.50

Colored pictures on each box with planting instructions. Early September delivery. F.O.B. East Coast if orders are received by us by July 15, or West Chicago.

HOLLAND BULB COLLECTION

Ideal for Counter Sales and Easter Forcing

Early September delivery. Colored poster and picture of each variety to help promote bulb sales. Each unit contains:

HYACINTHS

25 Blue	100 Carrara
25 Pink	100 Golden Harvest
25 White	100 Her Grace
	100 All Bright
	50 Blue Parrot
	50 Fantasy (Parrot)
	100 Red Emperor

TULIPS

100 Edith Eddy	
100 Wm. Pitt	
100 Philip Snowden	
100 Wm. Copeland	

DAFFODILS—Double Nosed

100 King Alfred

1 Collection, \$50.00

Should any varieties be sold out when your order is received, we will substitute with equally good or better named varieties. C.O.D. orders must be accompanied by 50% cash in advance. F.O.B. West Chicago, or East Coast if orders are received by us by July 15.

DAFFODILS

TRUMPET

	DN No. 1	DN No. 2
	Per 1000	Per 1000
Aerolite. Yellow	\$ 75.00	\$ 65.00
Beersheba. Pure white	130.00	105.00
Flower Carpet. Deep golden yellow	95.00	80.00
Golden Harvest. Golden yellow	105.00	90.00
King Alfred. Golden yellow	85.00	70.00
Mrs. E. H. Krelage. Creamy white	85.00	70.00
Queen of Bicolors. White, yellow trumpet	100.00	90.00
Rembrandt. Dark golden yellow	95.00	80.00

POETAZ

Cheerfulness. White, white and yellow center	65.00	55.00
Geranium. White, deep orange-red cup	70.00	55.00
Laurens Koster. White, yellow cup	60.00	50.00
L'Innocence. Pure white, yellow cup	70.00	60.00

CROCUS - Spring Flowering

	8/9	9/10	10/11
	Per 100	Per 100	Per 100
Blue and Purple	\$3.00	\$19.00	\$3.25
White	3.25	22.00	3.75
Yellow	3.25	22.00	3.75
Striped	3.00	19.00	3.25

PRICES SUBJECT TO CHANGE



JIFFY-POTS

The Revolutionary New Plant Growing Container

WHAT ARE JIFFY-POTS?

The Jiffy-Pot is a new molded type plant growing container composed of 75% peat and 25% wood fiber, made in Norway. Soluble fertilizers are added: 1.3% nitrogen, 1% phosphorus, and 1.6% potash. Jiffy-Pots are long-lasting and may be used for most normal potting jobs.

PRINCIPAL ADVANTAGES

They are **inexpensive** **light weight**, 100 2¼'s weigh one pound!—this minimizes shipping and handling expense **need less watering** than conventional pots—peat is well-known for its moisture retention capacity provide **excellent root aeration** through pot walls **roots grow through walls** permitting repotting into larger pots on the bench without removing pot—**saves considerable labor** root growth through pot walls also makes them **useful for bedding plants**, as your customers need not remove pot—plant "pot and all" available in **two sizes**, 2¼ and 3 inch **long-lasting** in spite of light weight, peat constructed Jiffy-Pots will last indefinitely in most greenhouse environments. We have dug Jiffy-Potted plants out of benches months later with active growth all the while to find pots completely intact except for holes made by root growth through the pot walls.

The most important single advantage of Jiffy-Pots is the **fast premium quality growth** which they support. Growers report (confirmed by our tests and those of the State University in Norway) up to 50% faster and heavier growth in Jiffy-Pots than in other types of pots.

USES FOR JIFFY-POTS

Bedding plant growers will find Jiffy-Pots useful for **all bedding plants**. Geraniums and hybrid **Tomatoes** have developed as fully in our trials in 3 inch Jiffies as similar plants in 4 inch regular pots Potted plant growers have used Jiffies for **Poinsettias** (See illustration), **Cyclamen** and **potted Mums** all types of **foliage plants** **Tuberous Begonias** and **Gloxinias** for the 2¼ or 3 inch pot stage of any cut flower crop including **Carnations**—many Carnation growers throughout the country used Jiffy-Pots extensively last spring with remarkable results (see illustration) **Chrysanthemums** **Snapdragons** all sorts of **nursery subjects** including evergreen seedlings and liners. **Azaleas**, etc. with proper wrapping, plants can be **shipped** in Jiffy-Pots—an ideal container for this purpose because the container protects the roots against drying out during shipping. This container is very light in weight, which saves shipping costs.

PRICES

2¼ Inch Per 1000
3000-18,000 (3000, \$21.75) **\$7.25**
21,000-72,000 **6.75**
75,000 up **6.50**
Sold in cases of 3000. F.O.B. our warehouse
in West Chicago and Bayonne, New Jersey.
Shipping weight 35 lbs. per case.

3 Inch Per 1000
1500-9000 (1500, \$19.88) **\$13.25**
10,500-49,500 **12.25**
51,000 up **11.25**
Sold in cases of 1500 F.O.B. our warehouse
in West Chicago and Bayonne, New Jersey.
Shipping weight 35 lbs. per case.



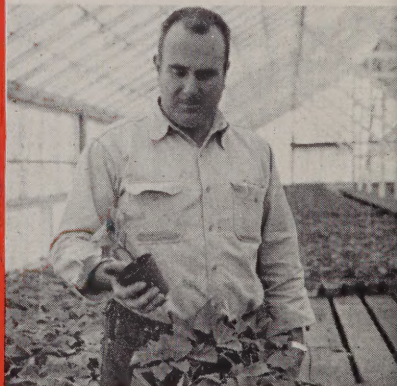
Ken Fujii, Sec. of the Northern California Carnation Growers Assn., reports complete satisfaction with Jiffy-Pots on Carnations in Calif.



Henry Reinhardt, prominent Carnation grower of Milwaukee, Wisconsin, reported Jiffy-Potted Carnations averaged 50% more breaks than clay potted plants.



Fred Pesche's Asters in Des Plaines, Ill. Three rows at right started in Jiffies—two on left in clay pots.



Andy Podesta, Palo Alto, Calif., tested Jiffy-Pots on Poinsettias. Found better growth — practically no foliage yellowing and dropping and much labor saved in transplanting.

Our Fourth Annual

BALL FIELD DAY

Will be held on Wednesday, July 25th

We'll be looking for YOU



Phone 299

WEST CHICAGO, ILL.